

ÉVES BESZÁMOLÓ

Szombathely Megyei Jogú Város Önkormányzata által az 5/2016 (III.1.) számú önkormányzati rendelet 13. sz. melléklete alapján nyújtott támogatás felhasználásához

Támogatási szerződés száma: 67.177-21/2016.

Támogatott szervezet neve:
ELTE Gothard Asztrofizikai Obszervatórium MKK

Szombathely
2017. február

SZAKMAI BESZÁMOLÓ

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A Szombathely Megyei Jogú Város Önkormányzata és
a Gothard Asztrofizikai Observatórium Multidiszciplináris Kutatóközpont
között létrejött megállapodás keretében végzett 2016. évi tevékenységekről

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Beszámoló

a Szombathely Megyei Jogú Város Önkormányzata és a Gothard Asztrofizikai Obszervatórium Multidiszciplináris Kutatóközpont között létrejött megállapodás keretében végzett 2016. évi tevékenységekről

Az ELTE Gothard Asztrofizikai Obszervatórium Multidiszciplináris Kutatóközpont 2016-ban is sikeresen folytatta oktatási, kutatási és közművelődési tevékenységét.

Az előre megfogalmazott éves működési feladatokat maradéktalanul teljesítettük.

I. Tudományos és oktatási tevékenység

A beszámolási időszakban **23 angol nyelvű szakcikket** jelentettünk meg a vezető nemzetközi szakterületi folyóiratokban. **Négy csillagászati adatkatalógus** közlésében vettünk részt, az **SDSS égboltfelmérés** és a **Kepler-úrtávcső** mérései alapján. 4 nemzetközi konferencián mutattunk be posztert, 6 esetben előadást tartottunk, és összesen 11 konferencián vettünk részt.

A Gothard Obszervatóriumban jegyzett cikkekre 2016-ban **1192 hivatkozás** érkezett (ebből 978 független).

A Gothard Asztrofizikai Obszervatórium Szombathely kiemelkedő tudományos műhelye. A hagyományos természettudományos diszciplínáink (asztrofizika, környezettudomány) művelésébe egyre nagyobb súllyal vonjuk be a legkorszerűbb alkalmazott matematikai és informatikai eszközöket (Big Data alkalmazások). *Menedzsment Bizottsági* szintű képviselőnkkel aktív részesei vagyunk az EU együttműködések keretében végzett fejlesztéseknek, amelyek a *Big Data Era in Sky and Earth Observations (BigSkyEarth) COST Action 30* tagország legjelentősebb együttműködési fóruma. Részt vettünk az **első egy hetes Big Data tehetség gondozási képzés megszervezésében és a 2016 áprilisában megrendezett workshopra két fiatal kutatót delegáltunk Magyarországról.**

Részt vettünk a BigSkyEarth 2016 tavaszi és őszi workshopján (Brno, Sorrento) és a nyári konferenciáján (Belgrád).

2017 februárjában mintegy 30 kutató részvételével **rendeztük meg a BigSkyEarth együttműködés tavaszi workshopját** Sopronban.

Szabó M. Gyula a CHEOPS (Characterising Exoplanet Satellite) exobolygókutató-űrobzervatórium Core Science Team tagja. Az úrtávcső várhatóan 2017-ben vagy 2018 elején lép működésbe, és **minden tudományos közleményben** szerepelni fog a **Gothard Obszervatórium és Szombathely** közreműködését jelező hivatkozás. A Science Team meetingeken való állandó, rendszeres részvételünkkel (április: Marseille; június: Genf; szeptember: Barcelona, december: Graz), és a kéthetenként tartott webes csoportmegbeszéléseken tanúsított aktivitásunkkal Magyarország a konzorcium **legaktívabb résztvevője.**

A CHEOPS keretében sikeres **magyar-francia tudományos együttműködést hoztunk létre.** Megszerveztük Sebastien Charnoz professzor (Geofizikai Intézet, Párizs) magyarországi látogatását, szemináriumát és magyar kutatókkal való találkozását. A program keretében Dobos Vera, az ELTE fizikus PhD hallgatója 2016-során kétszer egy hetes párizsi útján a **bolygóholdak árapály-fűtését** tanulmányozta. Szabó M. Gyula a párizsi intézetben az exobolygók holdjainak stabilitását és megfigyelésének lehetőségét kutatta.

Az együttműködés sikerét mutatja, hogy a kutatási tervünk bekerült a CHEOPS kulcsprogramjába (Key Science Program), és fontos kutatási feladatként a következő generációs PLATO úrtávcső legfontosabb programjainak egyike lett (Driver Program – indítás 2024-ben).

Mészáros Szabolcs mint Core Science Team tag, továbbra is aktív résztvevője az APOGEE égboltfelmérő programnak. Az APOGEE adatainak felhasználásával a **Tejútrendszer legöregebb csillagainak** fejlődését tanulmányozzuk.

Két munkatársunk, Mészáros Szabolcs és Kovács József a Space Telescope Science Institute (Baltimore, USA) kutatóival együttműködve a **Hubble-űrtávcső** utódjának szánt **James Webb-űrtávcső** szinképelemző műszerének kalibrálásához szükséges elméleti referencia csillagszínképek kiszámolásán dolgozik.

Derekas Aliz a Kepler és a TESS Asteroseismic Working Group egyik munkacsoportjának vezetője.

Aktívan részt vettünk a CHEOPS űrtávcső tudományos programját előkészítő **workshopokon és konferencián** Marseille, Barcelona, Genf, Graz helyszíneken (Szabó M. Gyula), a **BigSkyEarth COST Action workshopjain** (Brno), konferenciáin (Belgrád, Sorrento - Szabó M. Gyula).

Előadásokat tartottunk:

- az **Amerikai Csillagászati Társaság (AAS)** Bolygó Szakosztály (DPS) és az **Európai Bolygótudományi Konferencia (EPRC)** közös kongresszusán Pasadenában (Szabó M. Gyula, Kiss Csaba);
- a **TESS és Kepler/K2 űrtávcsövek asztroszeizmológiai konferenciáinak** közös TASC2 & KASC9 közös konferenciáján (SPACEINN & HELAS8, Portugália – Derekas Aliz);
- a **Multiple Populations in Globular Clusters konferencián (Mészáros Szabolcs, Szabó M. Gyula) Sextenben.**

Kétszer egy hetes **kutatóúton** vettünk részt a **párizsi** Institut de Physique du Globe (IPGP) intézetben (Dobos Vera, Szabó M. Gyula), valamint három hónapos kutatóúton a **Zágrábi Egyetemen** (Derekas Aliz).

Aktív részesei vagyunk az **ELTE oktatási tevékenységének**. Munkatársaink 2016-ban 6 kredit csillagászati kurzust tartottak az ELTE fizikus- és csillagászképzése keretében (Csillagászati nagyprojektek, Digitális képfeldolgozás és szinképelemzés, Emissziós csillagok nagy felbontású spektroszkópiája).

Cseh Borbála PhD-hallgatónk sikeres abszolutóriumot szerzett, Sárneckzy Krisztián értekezésében konzulensi feladatot láttunk el. Bírálóként 3 PhD-védésben vettünk részt.

II. Közművelődési és tehetséggondozási tevékenység

Gothard Jenő tevékenységét országos léptékű fotó-vándorkiállítás keretében mutattuk be. A csillagászati felvételekből, utazások képeiből, röntgen- és szikrakísérletekből álló képanyagot digitális rekonstrukciót követően világító táblákon mutattuk be a Bolyai Galériában, a sárvári Nadasdy Múzeumban, Tiszaföldváron, Túrkevén és Budapesten a Polaris Csillagvizsgálóban. Ezeket a kiállításokat **9751 látogató** tekintette meg. A kiállítást 2017-ben a Műszaki Múzeumban, majd hazatérése után ismét Szombathelyen, a Savaria Múzeumban mutatjuk be.

Szombathelyen előadást tartottunk a jövő óriástávcsöveiről, a földi kozmikus becsapódásokról, és koncerttel illusztrált előadást a zene matematikájáról és a hangolásokról. Budapesten, Szarvason és Esztergomban folytattuk nagy sikerű, „Az Interstellar és a tudomány” című előadásunkat, amely a film eszközeinek elemzésével irányítja az érdeklődőket a csillagászat felé. **17 előadásunkon 2320 fő vett részt.**

Az év során **1065 látogató** tekintette meg tudománytörténeti kiállításunkat és esti bemutatóinkat.

2016 advent első vasárnapjának előestéjén, hagyományteremtő céllal indítottuk útjára az **Advent a csillagvizsgálóban** eseménysorozatát. Az első adventi gyertyát Szombathely Megyei Jogú Város polgármestere, Dr. Puskás Tivadar gyújtotta meg. Közreműködött a Gothard Jenő Általános Iskola énekkara. Az esemény kísérő rendezvényeként nyitottuk meg az „**Égből hullott kövek**” **meteoritkiállítást**, ahol bemutatjuk a meteoritok minden fő típusát és fontosabb altípusait, a becsapódás és a kráterkeletkezés folyamatát, a meteoritok változatos belső szerkezetét. A gyűjtemény anyagmintákat tartalmaz a Holdról, a Mars Tharzis-régiójának vulkánjairól és a Vesta kisbolygóról. Az eseménynek nagy médiavisszhangja volt: tudósított többek között a szombathelyi és az országos televízió és a Kossuth Rádió. A kiállítást már 2016 decemberben 300 fő tekintette meg. A gyűjtemény 2017-ben is folyamatosan látogatható.

A Mozaik Múzeumtúra 2016-ban megújult formában folytatódik, **együttműködésünket az országos szervezettel folyamatosan fenntartjuk**. Célunk, hogy minden szombathelyi iskolás lehetőséget kapjon az obszervatórium és a tudománytörténeti gyűjtemény megismerésére.

Részt vettünk a **Meteor Csillagászati Évkönyv** tárgyévi kötetének írásában és szerkesztésében. A jelenségnaptár számítása és az általános relativitáselméletet bemutató terjedelmes cikk (Kovács József) mellett közöltünk tudománytörténeti anyagokat is (18 évfordulós megemlékezés, Szabó M. Gyula). Publikáltuk az ELTE GAO MKK működésének beszámolóját is.

Lefordítottuk, a kor követelményeinek megfelelően átszerkesztettük és lektoráltuk Klaus Schittenhelm: **Csillagképek – Az égbolt felfedezése** című könyvét, amely 2017-ben jelent meg a Cser Kiadó gondozásában (Jankovics István, Kovács József).

2016 februárjában a szombathelyi Gothard Jenő Általános Iskolával közösen **csillagászati vetélkedőt** rendeztünk az általános iskola 3-4. osztályos tanulói számára. Az egyre nagyobb népszerűségnek örvendő vetélkedőn 36 diák vett részt. Vincze Ildikó vezetésével töretlenül sikeres az általános iskolai és a középiskolai korosztályt megcélzó **természettudományos szakkör**.

Kovács József vezetésével koordináljuk a csillagászati diákolimpiai mozgalmat. 2016 október 21-23. között a szlovéniai Avberben tartottunk **csillagászati mini-olimpiát**. December 9-21. között az indiai Bhubaneshwarban szerepelt a magyar csapat a **Nemzetközi Csillagászati Diákolimpián (IOAA), több egyéni helyezettel**. A csapatvezetői feladatokat Kovács József látta el. Megkezdtük a felkészülést a **2019-es** évre, amikor a **Nemzetközi Csillagászati Diákolimpiát Magyarország rendezi**, a szervezői feladatok jelentős részét a Gothard Asztrofizikai Obszervatórium vállalja.

III. Pályázatok

- 2016-ban indult a GINOP 2.3.2.-15 módzatban elfogadott „**Kozmikus hatások és kockázatok**” című, MTA CSFK-val konzorciálisan megvalósított kutatási programunk (GAO oldali projektvezetője: Szabó M. Gyula). A Gothard Obszervatóriumban jelentős műszeres fejlesztéseket követően a **Holdba csapódó meteorok** vizsgálatát fogjuk végezni.
- Mészáros Szabolcs MTA Prémium posztdoktori ösztöndíjban részesült, és NKFIH (OTKA) pályázat keretében a **Galaktikus archeológia: a Tejútrendszer története a nagy égbolt-felmérő programok korában** c. kutatási programot valósítja meg.
- Derekas Aliz sikeresen zárta MTA Posztdoktori ösztöndíját, és a **Kettős rendszerekben pulzáló csillagok spektroszkópiája** c. kutatási programjával Eötvös Posztdoktori Ösztöndíjat nyert.
- Szabó M. Gyula a Gothard Obszervatórium és az ELTE Rektori Hivatalának közös részvételével az NKA könyvpályázaton nyert támogatást a **Gothard Obszervatórium történetét** bemutató kiadványhoz.

- Sikeresen zártuk magyar-francia Tét pályázatunkat az **exobolygók holdjainak** kutatási témájában, az együttműködést új pályázati keretek közt folytatjuk.

IV. Személyi fejlesztés

- 2016 folyamán a magyar-francia Tét pályázat megvalósításában vett részt **Dobos Vera**.
- Pályázati feladataink támogatására 2016 szeptemberétől **Rácz Diána Katalin** tölt be pályázati ügyintézői feladatkört.

V. Infrastrukturális fejlesztések

- 2016 tavaszán megvalósult az Observatórium **épületének teljes felújítása**, megújultak a kiállítóterek és új héjazatot kapott az observatórium főépülete.
- Konzerváló felújításban részesült a „**Sic Itur ad Astra**” szoborpark, amely a világűr meghódítására emlékeztet, és eredetileg a Szputnyik-1 adásának ötvenéves évfordulójára készült. A **megújított szoborparkot** a Múzeumok Éjszakáján adtuk át ismét a látogatóknak.
- Kiépítettük az observatórium Gyöngyös parti kapujáig tartó **ösvényt**, közvetlen átjárást biztosítva az observatórium és az Arborétum között. A kerti közlekedést segítő lámpákat fényszennyezés szempontjából is optimalizált, **lépésálló világításra** cseréltük.
- Korszerű, biztonságos **kerítést** építettünk a Gyöngyös patak oldalán.

E fejlesztéseknek köszönhetően mind a Gothard Tudomány- és Technikatörténeti Állandó Kiállítás, mind a csillagászati bemutatók helyszínéül szolgáló kupola teljesen megújult, térben és tartalmában is frissített formában várhatja látogatóit.

Mellékletek

1. Tudományos eredmények összefoglalása
2. A Gothard Asztrofizikai Observatórium publikációi 2016-ban
3. A Gothard Asztrofizikai Observatórium összes publikációjára érkezett hivatkozások 2016-ban
4. Látogatóstatisztika
5. Kutatók éjszakája – programfüzet és az eseményen készített fényképek
6. „Ezüstbe zárt világegyetem” vándorkiállítás szóróanyaga, a kihelyezésekről készített fényképek (Szombathely, Sárvár, Tiszafüred, Budapest – Polaris Csillagvizsgáló)
7. „Égből hullott kövek” kiállítás sajtóanyaga, meghívója, az eseményen készített fényképek

MELLÉKLETEK

Szombathely Megyei Jogú Város Önkormányzata által az 5/2016 (III.1.) számú önkormányzati rendelet 13. sz. melléklete alapján nyújtott támogatás felhasználásához

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1. MELLÉKLET

Tudományos eredmények összefoglalása

Az MTA CSFK CSI kutatóival együttműködve részt veszünk a Kepler/K2 mezőkben detektált kisbolygók, TNO-k, bolygóholdak és üstökösök tanulmányozásában. Az M35-mezőben 924, a Neptunusz-mezőben 96 fővi kisbolygó fényváltozását mértük meg. A fénygörbék kvázi-folyamatosak és több nap hosszúságúak. **Huszonhat kisbolygóra először határoztunk meg forgási periódust** (Szabó M. Gyula: 20).

Elemeztük a második legtávolabbi Neptunuszon túli objektum, a (225088) 2007 OR10 hősugárzási és **forgási adatait**. A vizsgálat során a Kepler Űrtávcső K2-es illetve a Herschel Űrtávcső távoli infravörös adataira támaszkodtunk. Az általunk megállapított átmérő 1535 km-nek adódott, ami ezt az égitestet a három legnagyobb Neptunuszon túli objektum közé emeli, 8.9% albedó mellett. Az optikai fénygörbe további analízise lassú forgásra utal: az égitest forgási periódusa 44.81 óra, ami fölvetette a kettősség gyanúját is (Szabó M. Gy.: 13)

Meghatároztuk a Neredia irreguláris Neptunusz hold forgási periódusát ($P = 11.59$ óra) és fénygörbe amplitúdóját ($\Delta m = 0.0328m \pm 0.0018m$). Ezzel megerősítettük a korábbi, földi mérések alapján kapott rövid periódusokat. Az észlelt fénygörbe amplitúdókból 1,3:1 maximális a:c tengelyarány származtatható, ami kizárja a korábban feltételezett 1,9:1 tengelyarányt és az ezen alapuló gyors forgástengely-precessziót. A Herschel és Spitzer méréseken alapuló termális modell alapján a tényleges tengelyarány közel lehet a 1,3:1-es maximumhoz, és a hold felszíne nagyon kráterezett lehet. (Szabó M. Gy.: 13)

Megvizsgáltuk az elmúlt másfél évtizedben Piszkés-tetőről észlelt **ötven hosszúperiódusú üstökös aktivitását**, és az aktivitásuk változását. Jelentős különbséget találtunk a dinamikailag új, és a visszatérő üstökösök között. Az Oort-felhőből származó vándorok sokkal magasabb, akár 3-4- szer nagyobb aktivitást mutatnak, kómájuk is sokkal szimmetrikusabb, ami izotróp anyagkiáramlásra utal. A visszatérő kométák ezzel szemben sokkal aszimmetrikusabb kómával jellemezhetők, a profil meredeksége esetenként negatív, ami hirtelen kitörésekre, az anyagtermelés gyors változására utal. A vizsgált égitestek morfológia megjelenése változatok, gyakran jól fejlett porcsóvát mutatnak, de ez nem korrelál az üstökösök abszolút fényességével. (Szabó M. Gy.: 18).

Megvizsgáltuk a K2 mezőkben detektált **56 Trójai-kisbolygó forgási tulajdonságait**. Kimutattuk, hogy a Trójai kisbolygók forgásstatistikája a lassabb irányban jelentősen eltér a fővitől, ami a kettősök nagy arányára utal. Találtunk egy két periódusú fénygörbét produkáló Trójai kisbolygót is, ami a kettősség nagyon határozott jeleként értelmeztünk. A forgási statistikák alapján nagyon porózus szerkezetű égitestekre következtettünk, nem egy esetben a 600 kg/m^3 átlagos sűrűség mutatkozott valószínűnek, megerősítve így a Trójai kisbolygók és az üstökösök feltételezett rokonságát (Szabó Gy. M. és mtsai, 2017: 22).

Vizsgáltuk az ég talán legtalányosabb objektumának fényváltozását. A Kepler mérések teljes hossza alatt a KIC 8462852 jelű csillag irreguláris és nem periodikus elhalványulásokat mutatott, melyek mélysége a fluxus 20%-át is elérte. Az elhalványulások hossza 5 és 80 nap között volt. Az objektum jobb megismeréséhez, elkészítettük annak nagyfelbontású spektrumát, illesztettük a spektrális energiaeloszlását, több időpontban megmértük a radiális sebességét. Megerősítettük, hogy a halványodásokat sem mérési, sem adatredukálási hiba nem okozhatta, azok asztrofizikai eredetűek. Sorra vettünk több csillagszerű vagy csillagkörüli anyagból álló, a csillagunk előtt elhaladó testet, mint lehetséges magyarázatot, de az összes elhalványodást egyikkel sem sikerül jól leírni (Szabó M. Gy., Kovács J., Csák B.: 2).

A CoRoT űrtávcső archívumában szisztematikus keresést végeztünk RR Lyrae típusú változócsillagok azonosítására. Eredményként **kilenc olyan RR Lyrae adatsort találtunk, amit még senki nem vizsgált meg**, melyek közül 7 változócsillag teljesen új felfedezés, három pedig Blazskó-effektust is mutat. A CoRoT 104948132 jelű Blazskó csillag frekvenciaspektrumából az eddigi legnagyobb periódusarányú második felhangú pulzációt sikerült kimutatnunk. Első ízben sikerült kimutatni egy RR Lyrae csillag pulzációjáról, hogy az nem szigorúan periodikus, hanem véletlenszerű fluktuációt mutat, amelyhez a CM Ori 32 s-os mintavételezésű adatsora adta a lehetőséget. Sikerült továbbá a CoRoT

instrumentális rendszerében meghatározott Fourier-paramétereket Johnson V színben meghatározottakra transzformálni és ezek segítségével becslést adni a teljes CoRoT RR Lyrae minta olyan alapvető fizikai paramétereire, mint a tömeg, luminozitás, fémtartalom (Derekas A.: 16).

A GAO munkatársa részt vett a Kepler űrtárcső fedési kettőseinek végső katalógusának elkészítésében, amely magában foglalja az egész misszió adatsorát. Összesen **2978 objektumot azonosítottunk, mint fedési vagy ellipszoidális változócsillag**, amely közel 1.3%-a a Kepler által mért objektumoknak. Az analízis során az efemeriseket és az alapparamétereket újraszámoltuk, a klasszifikációt felülvizsgáltuk analitikai modellek felhasználásával, a fedési idők változásait kiszámoltuk, osztályoztuk a rendszereket, pl. azonosítottunk harmas fedési rendszereket, ún. heartbeat csillagokat, változó fedési mélységű rendszereket, valamint nagyon hosszú keringési idejűeket, amelyek csak egyetlen fedést mutatnak a négy évnyi mérés alatt (Derekas A.:17).

Az APOGEE együttműködésben az adatkiértékelő program fejlesztésében és tesztelésében veszünk részt, illetve az APOGEE adatainak felhasználásával **a Tejútrendszer legöregebb csillagainak fejlődését tanulmányozzuk**. Ezen kívül, a Space Telescope Science Institute (Baltimore, USA) kutatóival együtt dolgozva a Hubble űrtárcső utódjának szánt James Webb űrtárcső egyik színképelemző műszerének kalibrálásához szükséges elméleti csillagszínképek kiszámolásán dolgozunk (Mészáros Szabolcs és Kovács József).

A Tejútrendszer morfológiájával kapcsolatos legfontosabb eredményünk a gömbhalmazokban található többszörös csillagpopulációk kialakulásának tanulmányozásához köthető. Külföldi, olasz és spanyol kollegáink vezetésével részt vettünk az APOGEE általunk korábban leközölt többszörös csillagpopulációk kémiai összetételének modellezésében. Ennek keretében **a csoportunk most talált először bizonyítékot arra, hogy a fiatalabb csillaggeneráció a korábbi, idősebb AGB csillagok csillagszelének köszönhetően dúsulnak fel** bizonyos elemek koncentrációja a légkörben (Mészáros: 19). Ezen kívül kulcsszerepet játszottunk a Tejútrendszer különböző részeiben, halo és diszkben található olyan csillagok felfedezésében melyek gömbhalmazokból szöktek el. Ezek általában alacsony fémtartalmú, de magas Al koncentrációval rendelkező csillagok, melyek csakis gömbhalmazokban keletkezhetnek (Mészáros: 10, 11).

Csillagok korának és tömegének meghatározása a csillagászat egyik legkomolyabb kihívása. Az APOGEE kutatói kidolgoztak egy módszert, mely a mért C and N abundanciákat felhasználva meg tudja határozni a csillagok tömegét 14%-os, korát pedig 40%-os pontossággal (Mészáros: 5).

Az IAC vezetésével részt vettünk a Tejútrendszer síkjában lévő csillagok O abundanciájának extrém pontosságú, 0.03-0.04dex, meghatározásában. A nagy pontosság lehetővé teszi a Tejútrendszer fejlődési modelljeinek szűkebb keretek közé való szorítását (Mészáros: 14).

Nyílthalmazok fontos szerepet játszanak a Tejútrendszer szerkezetének és fejlődésének tanulmányozásában, mert csillagaik egy időben keletkeztek és közel azonos kémiai összetételűek. Az APOGEE csoport **29 halmazt felhasználva térképezte fel a Tejútrendszer különböző részeinek fémtartalmának változását** (Mészáros: 7, 12).

Mészáros Szabolcs továbbra is aktív résztvevője az APOGEE égboltfelmérő programnak. Ennek keretében a 2016-os évben a 2010 óta futó program számos összefoglaló és leíró cikkében vett részt, mint Core Science Team tag. Az APOGEE ASPCAP nevű pipeline-jának (mely a csillagok fizikai paramétereit határozza meg) fejlesztésében is közreműködik az illesztés során alkalmazott szintetikus spektrumok és model atmoszférák tesztelésével és egy irreguláris interpolációs algoritmus fejlesztésével, mely **2017-ben válik majd a pipeline részévé** (Mészáros: 1,6).

Részt vettünk egy új, chemical tagging-nak nevezett módszer tesztelésében. A módszert sikeresen alkalmaztuk APOGEE adatokat használva csillaghalmazok megtalálására és kémiai összetételének analízisére (Mészáros: 8).

Az általunk fejlesztett Autosynth program segítségével azonosítottuk az RGB / AGB csillagok infravörös spektrumában azokat a hullámhossz tartományokat, melyek érzékenyek a ¹²C/¹³C izotóp-arány változására. Ez az izotóp arány egy indikátora lehet a csillag evolúciós állapotának és fizikai paramétereinek (Szigeti, Mészáros, Kovács: készülöben).

Az APOGEE privát adatainak a felhasználásával a Tejútrendszer egyik legmagasabb fémességű nyílthalmazában (NGC 6791) **meghatároztuk 11 vörös óriás szén-izotóp arányát** a spektrumszintetizálás módszerével. A kapott értékeket összevetettük a modellszámításokkal (Szigeti, Mészáros, Kovács: készülőben).

Dolgozunk egy átfogó adatbázis létrehozásán, mely a déli égbolton található gömbhalmazok csillagainak az irodalomban megtalálható összes spektroszkópiai adatát tartalmazza. Az adatbázis elsődleges célja, hogy segítsen a nemrég Chile-ben felépített APOGEE iker-spektrográf beüzemelésében, kalibrálásában. Ezáltal az APOGEE egyedülálló módon a teljes galaxisról képes lesz homogén spektroszkópiai adatokkal szolgálni (Szigeti, Mészáros, Kovács: Készülőben).

A Kepler-mező egy Ap csillagának vizsgáatával a **BVRI fényváltozások antikorrrelációját mutattuk ki**. Az analízis a lefedett 4 éves időskálán detektálható folt-változásra utal. (Derekas, Szigeti: készülőben).

2. MELLÉKLET

ELTE GAO MKK publikációi 2016 évben

Módszer: NASA ADS Bibcode bekérése munkatársaktól,
Összesítés,
NASA ADS kérés, Custom Format, %ZEncoding:UTF-8 %A %T %R %c

1. García Pérez, Ana E., Allende Prieto, Carlos, Holtzman, Jon A., Shetrone, Matthew, **Mészáros, Szabolcs**, Bizyaev, Dmitry, Carrera, Ricardo, Cunha, Katia, García-Hernández, D. A., Johnson, Jennifer A., Majewski, Steven R., Nidever, David L., Schiavon, Ricardo P., Shane, Neville, Smith, Verne V., Sobek, Jennifer, Troup, Nicholas, Zamora, Olga, Weinberg, David H., Bovy, Jo, Eisenstein, Daniel J., Feuillet, Diane, Frinchaboy, Peter M., Hayden, Michael R., Hearty, Fred R., Nguyen, Duy C., O'Connell, Robert W., Pinsonneault, Marc H., Wilson, John C., and Zasowski, Gail ASPCAP: The APOGEE Stellar Parameter and Chemical Abundances Pipeline 2016AJ....151..144G
51 hivatkozás

2. Boyajian, T. S., LaCourse, D. M., Rappaport, S. A., Fabrycky, D., Fischer, D. A., Gandolfi, D., Kennedy, G. M., Korhonen, H., Liu, M. C., Moor, A., Olah, K., Vida, K., Wyatt, M. C., Best, W. M. J., Brewer, J., Ciesla, F., **Csák, B.**, Deeg, H. J., Dupuy, T. J., Handler, G., Heng, K., Howell, S. B., Ishikawa, S. T., **Kovács, J.**, Kozakis, T., Kriskovics, L., Lehtinen, J., Lintott, C., Lynn, S., Nespral, D., Nikbakhsh, S., Schawinski, K., Schmitt, J. R., Smith, A. M., **Szabo, Gy.**, Szabo, R., Viuhó, J., Wang, J., Weiksnar, A., Bosch, M., Connors, J. L., Goodman, S., Green, G., Hoekstra, A. J., Jebson, T., Jek, K. J., Omohundro, M. R., Schwengeler, H. M., and Szewczyk, A. Planet Hunters IX. KIC 8462852 - where's the flux? 2016MNRAS.457.3988B
41 hivatkozás

3. Kirk, Brian, Conroy, Kyle, Prša, Andrej, Abdul-Masih, Michael, Kochoska, Angela, Matijević, Gal, Hambleton, Kelly, Barclay, Thomas, Bloemen, Steven, Boyajian, Tabettha, Doyle, Laurance R., Fulton, B. J., Hoekstra, Abe Johannes, Jek, Kian, Kane, Stephen R., Kostov, Veselin, Latham, David, Mazeh, Tsevi, Orosz, Jerome A., Pepper, Joshua, Quarles, Billy, Ragozzine, Darin, Shporer, Avi, Southworth, John, Stassun, Keivan, Thompson, Susan E., Welsh, William F., Agol, Eric, **Derekas, Aliz**, Devor, Jonathan, Fischer, Debra, Green, Gregory, Gropp, Jeff, Jacobs, Tom, Johnston, Cole, LaCourse, Daryll Matthew, Saetre, Kristian, Schwengeler, Hans, Toczyski, Jacek, Werner, Griffin, Garrett, Matthew, Gore, Joanna, Martinez, Arturo O., Spitzer, Isaac, Stevick, Justin, Thomadis, Pantelis C., Vrijmoet, Eliot Halley, Yenawine, Mitchell, Batalha, Natalie, and Borucki, William Kepler Eclipsing Binary Stars. VII. The Catalog of Eclipsing Binaries Found in the Entire Kepler Data Set 2016AJ....151...68K
28 hivatkozás

4. SDSS Collaboration, Albareti, Franco D., Allende Prieto, Carlos, Almeida, Andres, Anders, Friedrich, Anderson, Scott, Andrews, Brett H., Aragon-Salamanca, Alfonso, Argudo-Fernandez, Maria, Armengaud, Eric, Aubourg, Eric, Avila-Reese, Vladimir, Badenes, Carles, Bailey, Stephen, Barbuy, Beatriz, Barger, Kat, Barrera-Ballesteros, Jorge, Bartosz, Curtis, Basu, Sarbani, Bates, Dominic, Battaglia, Giuseppina, Baumgarten, Falk, Baur, Julien, Bautista, Julian, Beers, Timothy C., Belfiore, Francesco, Bershady, Matthew, Bertran de Lis, Sara, Bird, Jonathan C., Bizyaev, Dmitry, Blanc, Guillermo A., Blanton, Michael, Blomqvist, Michael, Bolton, Adam S., Borissova, J., Bovy, Jo, Nielsen Brandt, William, Brinkmann, Jonathan, Brownstein, Joel R., Bundy, Kevin, Burtin, Etienne, Busca, Nicolas G., Orlando Camacho Chavez, Hugo, Cano Diaz, M., Cappellari, Michele, Carrera, Ricardo, Chen, Yanping, Cherinka, Brian, Cheung, Edmond, Chiappini, Cristina, Chojnowski, Drew, Chuang, Chia-Hsun, Chung, Haeun, Cirolini, Rafael Fernando, Clerc, Nicolas, Cohen, Roger E., Comerford, Julia M., Comparat, Johan, Cousinou, Marie-Claude, Covey, Kevin, Crane, Jeffrey D., Croft, Rupert, Cunha, Katia, da Costa, Luiz, da Silva Ilha, Gabriele, Darling, Jeremy, Davidson, James

W., Jr., Dawson, Kyle, De Lee, Nathan, de la Macorra, Axel, de la Torre, Sylvain, Deconto Machado, Alice, Delubac, Timothee, Diamond-Stanic, Aleksandar M., Donor, John, Downes, Juan Jose, Drory, Niv, du Mas des Bourboux, Helion, Du, Cheng, Dwelly, Tom, Ebelke, Garrett, Eigenbrot, Arthur, Eisenstein, Daniel J., Elsworth, Yvonne P., Emsellem, Eric, Eracleous, Michael, Escoffier, Stephanie, Evans, Michael L., Falcon-Barroso, Jesus, Fan, Xiaohui, Favole, Ginevra, Fernandez-Alvar, Emma, Fernandez-Trincado, J. G., Feuillet, Diane, Fleming, Scott W., Font-Ribera, Andreu, Freischlad, Gordon, Frinchaboy, Peter, Fu, Hai, Gao, Yang, Garcia-Hernandez, D. A., Garcia Perez, Ana E., Garcia, Rafael A., Garcia-Dias, R., Gaulme, Patrick, Ge, Junqiang, Geisler, Douglas, Gil Marin, Hector, Gillespie, Bruce, Girardi, Leo, Goddard, Daniel, Gomez Maqueo Chew, Yilen, Gonzalez-Perez, Violeta, Grabowski, Kathleen, Green, Paul, Grier, Catherine J., Grier, Thomas, Guo, Hong, Guy, Julien, Hagen, Alex, Hall, Matt, Harding, Paul, Harley, R. E., Hasselquist, Sten, Hawley, Suzanne, Hayes, Christian R., Hearty, Fred, Hekker, Saskia, Hernandez Toledo, Hector, Ho, Shirley, Hogg, David W., Holley-Bockelmann, Kelly, Holtzman, Jon A., Holzer, Parker H., Hu, Jian, Huber, Daniel, Hutchinson, Timothy Alan, Hwang, Ho Seong, Ibarra-Medel, Hector J., Ivans, Inese I., Ivory, KeShawn, Jaehnig, Kurt, Jensen, Trey W., Johnson, Jennifer A., Jones, Amy, Jullo, Eric, Kallinger, T., Kinemuchi, Karen, Kirkby, David, Klaene, Mark, Kneib, Jean-Paul, Kollmeier, Juna A., Lacerna, Ivan, Lane, Richard R., Lang, Dustin, Laurent, Pierre, Law, David R., Le Goff, Jean-Marc, Leauthaud, Alexie, Li, Cheng, Li, Ran, Li, Chen, Li, Niu, Liang, Fu-Heng, Liang, Yu, Lima, Marcos, Lin, Lihwai, Lin, Lin, Lin, Yen-Ting, Long, Dan, Lucatello, Sara, MacDonald, Nicholas, MacLeod, Chelsea L., Mackereth, J. Ted, Mahadevan, Suvrath, Antonio-Geimba Maia, Marcio, Maiolino, Roberto, Majewski, Steven R., Malanushenko, Olena, Dullius Mallmann, Nicolas, Machado, Arturo, Maraston, Claudia, Marques-Chaves, Rui, Martinez Valpuesta, Inma, Masters, Karen L., Mathur, Savita, McGreer, Ian D., Merloni, Andrea, Merrifield, Michael R., **Meszaros, Szabolcs**, Meza, Andres, Miglio, Andrea, Minchev, Ivan, Molaverdikhani, Karan, Montero-Dorta, Antonio D., Mosser, Benoit, Muna, Demitri, Myers, Adam, Nair, Preethi, Nandra, Kirpal, Ness, Melissa, Newman, Jeffrey A., Nichol, Robert C., Nidever, David L., Nitschelm, Christian, O'Connell, Julia, Oravetz, Audrey, Padilla, Nelson, Palanque-Delabrouille, Nathalie, Pan, Kaike, Parejko, John, Paris, Isabelle, Peacock, John A., Peirani, Sebastien, Pellejero-Ibanez, Marcos, Penny, Samantha, Percival, Will J., Percival, Jeffrey W., Perez-Fournon, Ismael, Petitjean, Patrick, Pieri, Matthew, Pinsonneault, Marc H., Pisani, Alice, Prada, Francisco, Prakash, Abhishek, Price-Jones, Natalie, Raddick, M. Jordan, Rahman, Mubdi, Raichoor, Anand, Barboza Rembold, Sandro, Reyna, A. M., Rich, James, Richstein, Hannah, Ridl, Jethro, Riffel, Rogerio, Riffel, Rogemar A., Rix, Hans-Walter, Robin, Annie C., Rockosi, Constance M., Rodriguez-Torres, Sergio, Rodrigues, Thaise S., Roe, Natalie, Lopes, A. Roman, Roman-Zuniga, Carlos, Ross, Ashley J., Rossi, Graziano, Ruan, John, Ruggeri, Rossana, Runnoe, Jessie C., Salazar-Albornoz, Salvador, Salvato, Mara, Sanchez, Ariel G., Sanchez, Sebastian F., Sanchez-Gallego, Jose R., Santiago, Basilio Xavier, Schiavon, Ricardo, Schimoia, Jaderson S., Schlafly, Eddie Schlegel, David J., Schneider, Donald P., Schoenrich, Ralph, Schultheis, Mathias, Schwope, Axel, Seo, Hee-Jong, Serenelli, Aldo, Sesar, Branimir, Shao, Zhengyi, Shetrone, Matthew, Shull, Michael, Silva Aguirre, Victor, Skrutskie, M. F., Slosar, Anže, Smith, Michael, Smith, Verne V., Soback, Jennifer, Somers, Garrett, Souto, Diogo, Stark, David V., Stassun, Keivan G., Steinmetz, Matthias, Stello, Dennis, Storch Bergmann, Thaisa, Strauss, Michael A., Streblyanska, Alina, Stringfellow, Guy S., Suarez, Genaro, Sun, Jing, Taghizadeh-Popp, Manuchehr, Tang, Baitian, Tao, Charling, Tayar, Jamie, Tembe, Mita, Thomas, Daniel, Tinker, Jeremy, Tojeiro, Rita, Tremonti, Christy, Troup, Nicholas, Trump, Jonathan R., Unda-Sanzana, Eduardo, Valenzuela, O., van den Bosch, Remco, Vargas-Magana, Mariana, Vazquez, Jose Alberto, Villanova, Sandro, Vivek, M., Vogt, Nicole, Wake, David, Walterbos, Rene, Wang, Yuting, Wang, Enci, Weaver, Benjamin Alan, Weijmans, Anne-Marie, Weinberg, David H., Westfall, Kyle B., Whelan, David G., Wilcots, Eric, Wild, Vivienne, Williams, Rob A., Wilson, John, Wood-Vasey, W. M., Wylezalek, Dominika, Xiao, Ting, Yan, Renbin, Yang, Meng, Ybarra, Jason E., Yeche, Christophe, Yuan, Fang-Ting, Zakamska, Nadia, Zamora, Olga, Zasowski, Gail, Zhang, Kai, Zhao, Cheng, Zhao, Gong-Bo, Zheng, Zheng, Zheng, Zhou, Zhi-Min, Zhu, Guangtun, Zinn, Joel C., and Zou, Hu

The Thirteenth Data Release of the Sloan Digital Sky

Survey: First Spectroscopic Data from the SDSS-IV Survey MAPPING Nearby Galaxies at Apache Point Observatory 2016arXiv160802013S
24 hivatkozás

5. Martig, Marie, Fouesneau, Morgan, Rix, Hans-Walter, Ness, Melissa, **Mészáros, Szabolcs**, García-Hernández, D. A., Pinsonneault, Marc, Serenelli, Aldo, Silva Aguirre, Victor, and Zamora, Olga Red giant masses and ages derived from carbon and nitrogen abundances 2016MNRAS.456.3655M
20 hivatkozás

6. Majewski, S. R., APOGEE Team, and **APOGEE-2 Team** The Apache Point Observatory Galactic Evolution Experiment (APOGEE) and its successor, APOGEE-2 2016AN....337..863M
11 hivatkozás

7. Cunha, K., Frinchaboy, P. M., Souto, D., Thompson, B., Zasowski, G., Allende Prieto, C., Carrera, R., Chiappini, C., Donor, J., García-Hernández, D. A., García Pérez, A. E., Hayden, M. R., Holtzman, J., Jackson, K. M., Johnson, J. A., Majewski, S. R., **Mészáros, S.**, Meyer, B., Nidever, D. L., O'Connell, J., Schiavon, R. P., Schultheis, M., Shetrone, M., Simmons, A., Smith, V. V., and et al. Chemical abundance gradients from open clusters in the Milky Way disk: Results from the APOGEE survey 2016AN....337..922C
9 hivatkozás

8. Hogg, David W., Casey, Andrew R., Ness, Melissa, Rix, Hans-Walter, Foreman-Mackey, Daniel, Hasselquist, Sten, Ho, Anna Y. Q., Holtzman, Jon A., Majewski, Steven R., Martell, Sarah L., **Mészáros, Szabolcs**, Nidever, David L., and Shetrone, Matthew Chemical Tagging Can Work: Identification of Stellar Phase-space Structures Purely by Chemical-abundance Similarity 2016ApJ...833..262H
7 hivatkozás

9. Troup, Nicholas W., Nidever, David L., De Lee, Nathan, Carlberg, Joleen, Majewski, Steven R., Fernandez, Martin, Covey, Kevin, Chojnowski, S. Drew, Pepper, Joshua, Nguyen, Duy T., Stassun, Keivan, Nguyen, Duy Cuong, Wisniewski, John P., Fleming, Scott W., Bizyaev, Dmitry, Frinchaboy, Peter M., García-Hernández, D. A., Ge, Jian, Hearty, Fred, **Meszáros, Szabolcs**, Pan, Kaike, Allende Prieto, Carlos, Schneider, Donald P., Shetrone, Matthew D., Skrutskie, Michael F., Wilson, John, and Zamora, Olga Companions to APOGEE Stars. I. A Milky Way-spanning Catalog of Stellar and Substellar Companion Candidates and Their Diverse Hosts 2016AJ....151...85T
6 hivatkozás

10. Fernández-Trincado, J. G., Robin, A. C., Moreno, E., Schiavon, R. P., García Pérez, A. E., Vieira, K., Cunha, K., Zamora, O., Sneden, C., Souto, Diogo, Carrera, R., Johnson, J. A., Shetrone, M., Zasowski, G., García-Hernández, D. A., Majewski, S. R., Reylé, C., Blanco-Cuaresma, S., Martínez-Medina, L. A., Pérez-Villegas, A., Valenzuela, O., Pichardo, B., Meza, A., **Mészáros, Sz.**, Sobeck, J., Geisler, D., Anders, F., Schultheis, M., Tang, B., Roman-Lopes, A., Mennickent, R. E., Pan, K., Nitschelm, C., and Allard, F. Discovery of a Metal-poor Field Giant with a Globular Cluster Second-generation Abundance Pattern 2016ApJ...833..132F
5 hivatkozás

11. Martell, Sarah L., Shetrone, Matthew D., Lucatello, Sara, Schiavon, Ricardo P., **Mészáros, Szabolcs**, Allende Prieto, Carlos, García-Hernández, D. A., Beers, Timothy C., and Nidever, David L. Chemical Tagging in the SDSS-III/APOGEE Survey: New Identifications of Halo Stars with Globular Cluster Origins 2016ApJ...825..146M
5 hivatkozás

12. Souto, Diogo, Cunha, K., Smith, V., Allende Prieto, C., Pinsonneault, M., Zamora, O., García-Hernández, D. A., **Mészáros, Sz.**, Bovy, J., García Pérez, A. E., Anders, F., Bizyaev, D., Carrera, R., Frinchaboy, P. M., Holtzman, J., Ivans, I., Majewski, S. R., Shetrone, M., Sobeck, J., Pan, K., Tang, B.,

Villanova, S., and Geisler, D. Chemical Abundances in a Sample of Red Giants in the Open Cluster NGC 2420 from APOGEE 2016ApJ...830...35S

4 hivatkozás

13. Pál, András, Kiss, Csaba, Müller, Thomas G., Molnár, László, Szabó, Róbert, **Szabó, Gyula M.**, Sárneczky, Krisztián, and Kiss, László L. Large Size and Slow Rotation of the Trans-Neptunian Object (225088) 2007 OR₁₀ Discovered from Herschel and K2 Observations 2016AJ....151..117P

3 hivatkozás

14. Bertran de Lis, S., Allende Prieto, C., Majewski, S. R., Schiavon, R. P., Holtzman, J. A., Shetrone, M., Carrera, R., García Pérez, A. E., **Mészáros, Sz.**, Frinchaboy, P. M., Hearty, F. R., Nidever, D. L., Zasowski, G., and Ge, J. Cosmic variance in [O/Fe] in the Galactic disk

2016A&A...590A..74B

3 hivatkozás

15. Kiss, C., Pál, A., Farkas-Takács, A. I., **Szabó, G. M.**, Szabó, R., Kiss, L. L., Molnár, L., Sárneczky, K., Müller, T. G., Mommert, M., and Stansberry, J. Nereid from space: rotation, size and shape analysis from K2, Herschel and Spitzer observations 2016MNRAS.457.2908K

3 hivatkozás

16. Benkő, J. M., Szabó, R., **Derekas, A.**, and Sódor, Á. Finest light curve details, physical parameters, and period fluctuations of CoRoT RR Lyrae stars 2016MNRAS.463.1769B

1 hivatkozás

17. Molnár, L., **Derekas, A.**, Szabó, R., Matthews, J. M., Cameron, C., Moffat, A. F. J., Richardson, N. D., **Csák, B.**, **Dózsa, Á.**, Reed, P., Szabados, L., Heathcote, B., Bohlson, T., Cacella, P., Luckas, P., Sódor, Á., Skarka, M., **Szabó, Gy. M.**, Plachy, E., Kovács, J., Evans, N. R., Kolenberg, K., Collins, K. A., Pepper, J., Stassun, K. G., Rodriguez, J. E., Siverd, R. J., Henden, A., Mankiewicz, L., Zarnecki, A. F., Cwiek, A., Sokolowski, M., Pál, A., Guenther, D. B., Kuschnig, R., Rowe, J., Rucinski, S. M., Sasselov, D., and Weiss, W. W. V473 Lyr, a modulated, period-doubled Cepheid, and U TrA, a double-mode Cepheid observed by MOST 2016MNRAS.tmp.1578M

18. Sárneczky, K., **Szabó, Gy. M.**, **Csák, B.**, Kelemen, J., Marschalkó, G., Pál, A., Szakáts, R., Szalai, T., Szegedi-Elek, E., Székely, P., Vida, K., Vinkó, J., and Kiss, L. L. Activity of 50 Long-period Comets Beyond 5.2 au 2016AJ....152..220S

19. Ventura, P., García-Hernández, D. A., Dell'Agli, F., D'Antona, F., **Mészáros, Sz.**, Lucatello, S., Di Criscienzo, M., Shetrone, M., Tailo, M., Tang, Baitian, and Zamora, O. Evidence of AGB Pollution in Galactic Globular Clusters from the Mg-Al Anticorrelations Observed by the APOGEE Survey 2016ApJ...831L..17V

20. Szabó, R., Pál, A., Sárneczky, K., **Szabó, Gy. M.**, Molnár, L., Kiss, L. L., Hanyecz, O., Plachy, E., and Kiss, Cs. Uninterrupted optical light curves of main-belt asteroids from the K2 mission 2016A&A...596A..40S

21. Pal, Andras, Kiss, Csaba, Molnar, Laszlo, Mueller, Thomas G., Sarneczky, Krisztian, Szabo, Robert, Kiss, Laszlo L., and **Szabo, Gyula M.** K2 and Herschel/PACS photometry of irregular satellites 2016DPS....4851909P

22. **Szabó, Gyula**, Kiss, Csaba, Pal, Andras, and Szabo, Robert Photometry of Main Belt and Trojan asteroids with K2 2016DPS....4841004S

23. Kiss, Csaba, Pal, Andras, Farkas Anikó, Takácsné, Marciniak, Anna, Mueller, Thomas G., Kiss, Laszlo L., **Szabo, Gyula M.**, Szabo, Robert, Sarneczky, Krisztian, and Molnar, Laszlo Physical characteristics of Centaurs and trans-Neptunian objects from combined K2 and Herschel observations 2016DPS....4810602K

24. Szabo, R., Pal, A., Sarneczky, K., Szabo, Gy. M., Molnar, L., Kiss, L. L., Hanyecz, O., Plachy, E., and Kiss, Cs. VizieR Online Data Catalog: Main-belt asteroids optical light curves (Szabo+, 2016) 2016yCat..35960040S

25. Anders, F., Chiappini, C., Rodrigues, T. S., Miglio, A., Montalbán, J., Mosser, B., Girardi, L., Valentini, M., Noels, A., Morel, T., Johnson, J. A., Schultheis, M., Baudin, F., de Assis Peralta, R., Hekker, S., Themessl, N., Kallinger, T., Garcia, R. A., Mathur, S., Baglin, A., Santiago, B. X., Martig, M., Minchev, I., Steinmetz, M., da Costa, L. N., Maia, M. A. G., Allende Prieto, C., Cunha, K., Beers, T. C., Epstein, C., Garcia Perez, A. E., Garcia-Hernandez, D. A., Harding, P., Holtzman, J., Majewski, S. R., **Meszáros, Sz.**, Nidever, D., Pan, K., Pinsonneault, M., Schiavon, R. P., Schneider, D. P., Shetrone, M. D., Stassun, K., Zamora, O., and Zasowski, G. VizieR Online Data Catalog: Seismology and spectroscopy of CoRoGEE red giants (Anders+, 2017) 2016yCat..35970030A

26. Pal, A., Kiss, C., Müller, T. G., Molnar, L., Szabo, R., **Szabo, G. M.**, Sarneczky, K., and Kiss, L. L. VizieR Online Data Catalog: R photometry of (225088) 2007 OR₁₀ (Pal+,2016) 2016yCat..51510117P

27. Shetrone, M., Bizyaev, D., Lawler, J. E., Allende Prieto, C., Johnson, J. A., Smith, V. V., Cunha, K., Holtzman, J., Garcia Perez, A. E., **Meszáros, Sz.**, Sobeck, J., Zamora, O., Garcia-Hernandez, D. A., Souto, D., Chojnowski, D., Koesterke, L., Majewski, S., and Zasowski, G. VizieR Online Data Catalog: SDSS-III APOGEE H-band spectral line lists (Shetrone+, 2015) 2016yCat..22210024S

3. MELLÉKLET

ELTE GAO MKK összes hivatkozó cikkei 2016 évben és 2017 januárban

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Zasche, P. Analysis of eight binaries in Lyncis constellation: RV Lyn, AA Lyn, AH Lyn, CD Lyn, CF Lyn, DR Lyn, EK Lyn, and FS Lyn 2017NewA...53...53Z

Hunt, Jason A. S., and 5 colleagues Stars with fast Galactic rotation observed in Gaia TGAS: a signature driven by the Perseus arm? 2017MNRAS.467L..21H

Çakırlı;, Ö., and 3 colleagues V850 Cyg: An eclipsing binary with a giant γ
Dor pulsator 2017NewA...52...96C

Hales, Antonio S., and 3 colleagues Atomic gas in debris discs 2017MNRAS.466.3582H

Lardo, C., and 5 colleagues Multiple populations along the asymptotic giant branch of the globular cluster M4 2017MNRAS.466.3507L

Elsworth, Yvonne, and 3 colleagues A new method for the asteroseismic determination of the evolutionary state of red-giant stars 2017MNRAS.466.3344E

Miles-P´ez, P. A., and 3 colleagues Optical and near-infrared linear polarization of low and intermediate-gravity ultracool dwarfs 2017MNRAS.466.3184M

Williams, Peter, and 2 colleagues Population mixtures and searches of lensed and extended quasars across photometric surveys 2017MNRAS.466.3088W

Vincenzo, F., and 2 colleagues A simple and general method for solving detailed chemical evolution with delayed production of iron and other chemical elements 2017MNRAS.466.2939V

Jimeno, Pablo, and 6 colleagues Precise clustering and density evolution of redMaPPer galaxy clusters versus MXXL simulation 2017MNRAS.466.2658J

Monteiro-Oliveira, R., and 6 colleagues The merger history of the complex cluster Abell 1758: a combined weak lensing and spectroscopic view 2017MNRAS.466.2614M

Prudil, Z., and 1 colleague Blazhko effect in the Galactic bulge fundamental mode RR Lyrae stars - I. Incidence rate and differences between modulated and non-modulated stars 2017MNRAS.466.2602P

Beutler, Florian, and 22 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: anisotropic galaxy clustering in Fourier space 2017MNRAS.466.2242B

Bertelli Motta, Clio, and 3 colleagues Observing the products of stellar evolution in the old open cluster M67 with APOGEE 2017MNRAS.466.2161B

Bird, Simeon, and 2 colleagues Statistical properties of damped Lyman-alpha systems from Sloan Digital Sky Survey DR12 2017MNRAS.466.2111B

Chen, Yen-Chi, and 8 colleagues Detecting effects of filaments on galaxy properties in the Sloan Digital Sky Survey III 2017MNRAS.466.1880C

Greig, Bradley, and 4 colleagues Ly α ; emission-line reconstruction for high-z QSOs 2017MNRAS.466.1814G

Robotham, A. S. G., and 4 colleagues PROFIT: Bayesian profile fitting of galaxy images 2017MNRAS.466.1513R

Maragkoudakis, A., and 3 colleagues The sub-galactic and nuclear main sequences for local star-forming galaxies 2017MNRAS.466.1192M

Schiavon, Ricardo P., and 29 colleagues APOGEE chemical abundances of globular cluster giants in the inner Galaxy 2017MNRAS.466.1010S

Coziol, Roger, and 4 colleagues What sparks the radio-loud phase of nearby quasars? 2017MNRAS.466..921C

Cappellari, Michele Improving the full spectrum fitting method: accurate convolution with Gauss-Hermite functions 2017MNRAS.466..798C

Zhao, Gong-Bo, and 27 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: tomographic BAO analysis of DR12 combined sample in Fourier space 2017MNRAS.466..762Z

Wong, O. Ivy, and 11 colleagues Early Science with the Large Millimeter Telescope: discovery of the $\langle \text{CO}(1-0) \rangle$ emission line in the ring galaxy
VIIZw466 2017MNRAS.466..574W

Jenkins, J. S., and 24 colleagues New planetary systems from the Calan-Hertfordshire Extrasolar Planet Search 2017MNRAS.466..443J

Garay, Carlos Peñalosa, and 2 colleagues Neutrino footprint in large scale structure 2017PDU....15...31G

Trampedach, Regner, and 6 colleagues The asteroseismic surface effect from a grid of 3D convection simulations - I. Frequency shifts from convective expansion of stellar atmospheres 2017MNRAS.466L..43T

Alam, Shadab, and 4 colleagues Testing gravity on large scales by combining weak lensing with galaxy clustering using CFHTLenS and BOSS CMASS 2017MNRAS.465.4853A

Marsh, F. M., and 5 colleagues Characterization of 9380 contact binaries from the CRTS Variable Sources Catalogue 2017MNRAS.465.4678M

Zheng, Zheng, and 22 colleagues SDSS-IV MaNGA: environmental dependence of stellar age and metallicity gradients in nearby galaxies 2017MNRAS.465.4572Z

Baron, Dalya, and 1 colleague The weirdest SDSS galaxies: results from an outlier detection algorithm 2017MNRAS.465.4530B

Dutta, R., and 7 colleagues Incidence of H I 21-cm absorption in strong Fe II systems at $0.5 < z < 1.5$ 2017MNRAS.465.4249D

De Propris, Roberto The K -band luminosity functions of cluster galaxies 2017MNRAS.465.4035D

Park, Songyoun, and 3 colleagues Discovery of five low-luminosity active

galactic nuclei at the centre of the Perseus cluster 2017MNRAS.465.3943P

Lamb, M., and 18 colleagues Using the multi-object adaptive optics demonstrator RAVEN to observe metal-poor stars in and towards the Galactic Centre 2017MNRAS.465.3536L

Kipping, David M., and 1 colleagues Transit clairvoyance: enhancing TESS follow-up using artificial neural networks 2017MNRAS.465.3495K

Martell, S. L., and 33 colleagues The GALAH survey: observational overview and Gaia DR1 companion 2017MNRAS.465.3203M

Armstrong, D. J., and 2 colleagues Transit shapes and self-organizing maps as a tool for ranking planetary candidates: application to Kepler and K2 2017MNRAS.465.2634A

Notsu, Yuta, and 6 colleagues Spectroscopic observations of active solar-analog stars with high X-ray luminosity, as a proxy of superflare stars 2017PASJ...69...12N

Yoshida, Michitoshi, and 37 colleagues J-GEM follow-up observations of the gravitational wave source GW151226* 2017PASJ...69....9Y

Samui, Saumyadip, and 1 colleagues Photo-z with CuBANz: An improved photometric redshift estimator using Clustering aided Back propagation Neural network 2017NewA...51..169S

Du, Changde, and 2 colleagues Adaptive stellar spectral subclass classification based on Bayesian SVMs 2017NewA...51...51D

Feltzing, Sofia, and 3 colleagues On the metallicity dependence of the [Y/Mg]-age relation for solar-type stars 2017MNRAS.465L.109F

Chengalur, J. N., and 2 colleagues UGC 3672: an unusual merging triplet of gas-rich galaxies in the Lynx-Cancer void 2017MNRAS.465.2342C

Gil-Marín, Hector, and 7 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: RSD measurement from the power spectrum and bispectrum of the DR12 BOSS galaxies 2017MNRAS.465.1757G

Kammoun, E. S., and 10 colleagues Coronal properties of the luminous radio-quiet quasar QSO B2202-209 2017MNRAS.465.1665K

Portail, Matthieu, and 3 colleagues Dynamical modelling of the galactic bulge and bar: the Milky Way's pattern speed, stellar and dark matter mass distribution 2017MNRAS.465.1621P

Fernández-Alvar, E., and 12 colleagues Chemical trends in the Galactic halo from APOGEE data 2017MNRAS.465.1586F

Hildebrandt, H., and 35 colleagues KiDS-450: cosmological parameter constraints from tomographic weak gravitational lensing 2017MNRAS.465.1454H

Symeonidis, M. What produces the far-infrared/submillimetre emission in the most luminous QSOs? 2017MNRAS.465.1401S

Pilyugin, L. S., and 4 colleagues On the influence of the environment on galactic chemical abundances 2017MNRAS.465.1358P

Gonzalez, Elizabeth Johana, and 5 colleagues Weak-lensing measurement of the mass-richness relation using the SDSS data base 2017MNRAS.465.1348G

Liakos, Alexios, and 1 colleagues Catalogue and properties of δ Scuti stars in binaries 2017MNRAS.465.1181L

Mancini, L., and 29 colleagues Orbital alignment and star-spot properties in the WASP-52 planetary system 2017MNRAS.465..843M

Cole, D. R., and 1 colleagues A centrally heated dark halo for our Galaxy 2017MNRAS.465..798C

Bayo, A., and 8 colleagues Physical parameters of late M-type members of Chamaeleon I and TW Hydrae Association: dust settling, age dispersion and activity 2017MNRAS.465..760B

Goddard, D., and 25 colleagues SDSS-IV MaNGA: stellar population gradients as a function of galaxy environment 2017MNRAS.465..688G

Dutta, R., and 6 colleagues H i 21-cm absorption survey of quasar-galaxy pairs: distribution of cold gas around $z < 0.4$ galaxies 2017MNRAS.465..588D

Schiavon, Ricardo P., and 44 colleagues Chemical tagging with APOGEE: discovery of a large population of N-rich stars in the inner Galaxy 2017MNRAS.465..501S

Pol, Nihan, and 1 colleagues Seyfert 1 composite spectrum using SDSS Legacy survey data 2017MNRAS.465...95P

Tang, Baitian, and 20 colleagues Two groups of red giants with distinct chemical abundances in the bulge globular cluster NGC 6553 through the eyes of APOGEE 2017MNRAS.465...19T

Trevisan, M., and 2 colleagues Do the stellar populations of the brightest two group galaxies depend on the magnitude gap? 2017MNRAS.464.4593T

Kim, Edward J., and 1 colleagues Star-galaxy classification using deep convolutional neural networks 2017MNRAS.464.4463K

Tang, B., and 45 colleagues The \$Gaia\$-ESO Survey: the inner disk intermediate-age open cluster NGC 6802 2017arXiv170201109T

Chantavat, Teeraparb, and 2 colleagues Void profile from Planck lensing potential map 2017arXiv170201009C

Schawinski, Kevin, and 4 colleagues Generative Adversarial Networks recover features in astrophysical images of galaxies beyond the deconvolution limit 2017arXiv170200403S

Chalela, Marti, and 3 colleagues Compact Groups analysis using weak gravitational lensing 2017arXiv170200402C

Elyajouri, M., and 4 colleagues Near-infrared diffuse interstellar bands in APOGEE telluric standard star spectra: weak bands and comparisons with optical counterparts 2017arXiv170200223E

Lee, Young Sun, and 7 colleagues Chemical Cartography. I. A Carbonicity Map of the Galactic Halo 2017arXiv170200195L

Bautista, Julian E., and 26 colleagues Measurement of BAO correlations at $z=2.3$ with SDSS DR12 Ly α -Forests 2017arXiv170200176B

David, Trevor J., and 16 colleagues A Transient Transit Signature Associated with the Young Star RIK-210 2017ApJ...835..168D

Mao, Qingqing, and 11 colleagues A Cosmic Void Catalog of SDSS DR12 BOSS

Galaxies 2017ApJ...835..161M

Mao, Qingqing, and 7 colleagues Cosmic Voids in the SDSS DR12 BOSS Galaxy Sample: The Alcock-Paczynski Test 2017ApJ...835..160M

Saitoh, Takayuki R. Chemical Evolution Library for Galaxy Formation Simulation 2017AJ....153...85S

Collins, Karen A., and 2 colleagues Transit Timing Variation Measurements of WASP-12b and Qatar-1b: No Evidence Of Additional Planets 2017AJ....153...78C

Kunder, Andrea, and 53 colleagues The Radial Velocity Experiment (RAVE): Fifth Data Release 2017AJ....153...75K

Miller, A. A., and 5 colleagues Preparing for Advanced LIGO: A Star-Galaxy Separation Catalog for the Palomar Transient Factory 2017AJ....153...73M

Ziegler, Carl, and 8 colleagues Robo-AO Kepler Planetary Candidate Survey. III. Adaptive Optics Imaging of 1629 Kepler Exoplanet Candidate Host Stars 2017AJ....153...66Z

Andersson, Carolina, and 2 colleagues Photometric Selection of a Massive Galaxy Catalog with $z \geq 0.55$ 2017AJ....153...58N

Liu, Dezi, and 7 colleagues Deep CFHT Y-band Imaging of VVDS-F22 Field. I. Data Products and Photometric Redshifts 2017AJ....153...53L

Kennedy, Grant M., and 6 colleagues The transiting dust clumps in the evolved disc of the Sun-like UXor RZ Psc 2017RSOS....460652K

Martins, Andr e, and 2 colleagues Asteroseismic constraints on asymmetric dark matter: Light particles with an effective spin-dependent coupling 2017PhRvD..95b3507M

Nayakshin, Sergei Dawes Review 7: The Tidal Downsizing Hypothesis of Planet Formation 2017PASA...34....2N

Nazari, Yaşar, and 7 colleagues How unique is Plaskett's star? A search for organized magnetic fields in short period, interacting or post-interaction massive binary systems \star 2017MNRAS.tmp..196N

Ata, Metin, and 33 colleagues The Clustering of Galaxies in the Completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmic Flows and Cosmic Web from Luminous Red Galaxies 2017MNRAS.tmp..183A

Banik, Indranil, and 1 colleagues Dynamical History Of The Local Group In Λ CDM slowromancapii@ - Including External Perturbbers In 3D 2017MNRAS.tmp..165B

Kordopatis, Georges, and 5 colleagues Cardinal kinematics: I. Rotation fields of the APOGEE Survey 2017MNRAS.tmp..161K

Cao, H. M., and 7 colleagues VLBI observations of four radio quasars at $z \geq 4$: blazars or not? 2017MNRAS.tmp..153C

Brahm, Rafael, and 3 colleagues $\text{\<monospace\>ZASPE\text{\</monospace\>}$: A Code to Measure Stellar Atmospheric Parameters and their Covariance from Spectra 2017MNRAS.tmp..146B

Rappaport, S., and 17 colleagues EPIC 220204960: A Quadruple Star System

Containing Two Strongly Interacting Eclipsing Binaries 2017MNRAS.tmp..145R

Cowan, Nicolas B., and 4 colleagues Odd Harmonics in Exoplanet Photometry: Weather or Artifact? 2017MNRAS.tmp..136C

Xiang, M.-S., and 31 colleagues LAMOST Spectroscopic Survey of the Galactic Anticentre (LSS-GAC): the second release of value-added catalogues 2017MNRAS.tmp..132X

Rodrigues, Thaise S., and 8 colleagues Determining stellar parameters of asteroseismic targets: going beyond the use of scaling relations 2017MNRAS.tmp..120R

Holoien, T. W.-S., and 43 colleagues The ASAS-SN Bright Supernova Catalog - II. 2015 2017MNRAS.tmp...96H

Kokubo, Mitsuru Constraints on the optical polarization source in the luminous non-blazar quasar 3C 323.1 (PG 1545+210) from the photometric and polarimetric variability 2017MNRAS.tmp...89K

Allen, Christine., and 3 colleagues On the dynamical evolution of the Orion Trapezium 2017MNRAS.tmp...85A

Sakari, Charli M., and 2 colleagues Chemical Abundances of Two Stars in the Large Magellanic Cloud Globular Cluster NGC 1718 2017MNRAS.tmp...84S

Janowiecki, Steven, and 5 colleagues xGASS: Gas-rich central galaxies in small groups and their connections to cosmic web gas feeding 2017MNRAS.tmp...70J

Molaeinezhad, A., and 7 colleagues The imprints of bars on the vertical stellar population gradients of galactic bulges 2017MNRAS.tmp...59M

Grieb, Jan Niklas, and 27 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological implications of the Fourier space wedges of the final sample 2017MNRAS.tmp...13G

Smith, Russell J. A strong-lensing elliptical galaxy in the MANGA survey 2017MNRAS.464L..46S

Hjorringgaard, J. G., and 7 colleagues Testing stellar evolution models with the retired A star HD 185351 2017MNRAS.464.3713H

Xiang, M.-S., and 18 colleagues Estimating stellar atmospheric parameters, absolute magnitudes and elemental abundances from the LAMOST spectra with Kernel-based principal component analysis 2017MNRAS.464.3657X

Hamann, Fred, and 13 colleagues Extremely red quasars in BOSS 2017MNRAS.464.3431H

Wyatt, M. C., and 4 colleagues How to design a planetary system for different scattering outcomes: giant impact sweet spot, maximizing exocomets, scattered discs 2017MNRAS.464.3385W

Zhang, Z. H., and 12 colleagues Primeval very low-mass stars and brown dwarfs - I. Six new L subdwarfs, classification and atmospheric properties 2017MNRAS.464.3040Z

Masseron, T., and 4 colleagues Nitrogen depletion in field red giants: mixing during the He flash? 2017MNRAS.464.3021M

Holoien, T. W.-S., and 34 colleagues The ASAS-SN bright supernova catalogue - I. 2013-2014 2017MNRAS.464.2672H

Fuhrmann, Klaus, and 3 colleagues On the local stellar populations
2017MNRAS.464.2610F

Chen, B.-Q., and 9 colleagues Constraining the Galactic structure
parameters with the XSTPS-GAC and SDSS photometric surveys
2017MNRAS.464.2545C

Howlett, Cullan, and 2 colleagues Cosmological forecasts for combined and
next-generation peculiar velocity surveys 2017MNRAS.464.2517H

Baumgardt, H. N -body modelling of globular clusters: masses, mass-to-light
ratios and intermediate-mass black holes 2017MNRAS.464.2174B

Singh, Sukhdeep, and 2 colleagues Cross-correlating Planck CMB lensing with
SDSS: lensing-lensing and galaxy-lensing cross-correlations
2017MNRAS.464.2120S

Melia, Fulvio The linear growth of structure in the $R_{\text{h}} = ct$ universe
2017MNRAS.464.1966M

Qu, Yan, and 10 colleagues A chronicle of galaxy mass assembly in the EAGLE
simulation 2017MNRAS.464.1659Q

Sánchez, Ariel G., and 23 colleagues The clustering of galaxies in the
completed SDSS-III Baryon Oscillation Spectroscopic Survey: Cosmological
implications of the configuration-space clustering wedges
2017MNRAS.464.1640S

Andrews, S. K., and 5 colleagues G10/COSMOS: 38 band (far-UV to far-IR)
panchromatic photometry using LAMBDAR 2017MNRAS.464.1569A

Derekas, A., and 10 colleagues The Kepler Cepheid V1154 Cyg revisited:
light curve modulation and detection of granulation 2017MNRAS.464.1553D

Oh, Kyuseok, and 16 colleagues BAT AGN Spectroscopic Survey - III. An
observed link between AGN Eddington ratio and narrow-emission-line ratios
2017MNRAS.464.1466O

Kos, Janez, and 31 colleagues The GALAH survey: the data reduction pipeline
2017MNRAS.464.1259K

Ross, Ashley J., and 29 colleagues The clustering of galaxies in the
completed SDSS-III Baryon Oscillation Spectroscopic Survey: observational
systematics and baryon acoustic oscillations in the correlation function
2017MNRAS.464.1168R

Su, T., and 27 colleagues On the redshift distribution and physical
properties of ACT-selected DSFGs 2017MNRAS.464..968S

Gaidos, E., and 15 colleagues Zodiacal exoplanets in time (ZEIT) - II. A
'super-Earth' orbiting a young K dwarf in the Pleiades Neighbourhood
2017MNRAS.464..850G

Kawata, Daisuke, and 5 colleagues Impacts of a flaring star-forming disc
and stellar radial mixing on the vertical metallicity gradient
2017MNRAS.464..702K

Sokolovsky, K. V., and 22 colleagues Comparative performance of selected
variability detection techniques in photometric time series data
2017MNRAS.464..274S

Feldmeier-Krause, A., and 7 colleagues KMOS view of the Galactic Centre -
II. Metallicity distribution of late-type stars 2017MNRAS.464..194F

Reese, D. R., and 6 colleagues Frequency regularities of acoustic modes and multi-colour mode identification in rapidly rotating stars
2017arXiv170109164R

Groenewald, Daniëlle N., and 3 colleagues The close pair fraction of BCGs since $z=0.5$: major mergers dominate recent BCG stellar mass growth
2017arXiv170109012G

Verma, Kuldeep, and 6 colleagues Seismic measurement of the locations of the base of convection zone and helium ionization zone for stars in the Kepler seismic LEGACY sample
2017arXiv170108987V

Schmidt, Tobias M., and 4 colleagues Statistical Detection of the HeII Transverse Proximity Effect: Evidence for Sustained Quasar Activity for >25 Million Years
2017arXiv170108769S

Chen, C.-T. J., and 16 colleagues Hard X-ray selected AGNs in low-mass galaxies from the NuSTAR serendipitous survey
2017arXiv170108768C

Beck, R., and 8 colleagues On the realistic validation of photometric redshifts, or why Teddy will never be Happy
2017arXiv170108748B

Metcalf, Travis, and 2 colleagues The Impact of Gaia DR1 on Asteroseismic Inferences from Kepler
2017arXiv170108746M

Marigo, Paola, and 15 colleagues A new generation of PARSEC-COLIBRI stellar isochrones including the TP-AGB phase
2017arXiv170108510M

Vagnozzi, Sunny, and 6 colleagues Unveiling ν secrets with cosmological data: neutrino masses and mass hierarchy
2017arXiv170108172V

Cherry, John F., and 1 colleagues Closing in on Resonantly Produced Sterile Neutrino Dark Matter
2017arXiv170107874C

Schonhut-Stasik, Jessica S., and 10 colleagues Robo-AO Kepler Asteroseismic Survey. I. Adaptive optics imaging of 99 asteroseismic Kepler dwarfs and subgiants
2017arXiv170107841S

Liu, Chao, and 10 colleagues Mapping the Milky Way with LAMOST I: Method and overview
2017arXiv170107831L

Ness, M., and 11 colleagues Galactic Doppelganger: The chemical similarity among field stars and among stars with a common birth origin
2017arXiv170107829N

Reitberger, K., and 3 colleagues MHD Models of Gamma-ray Emission in WR 11
2017arXiv170107284R

Dimitriadis, G., and 12 colleagues The late-time light curve of the type Ia supernova SN 2011fe
2017arXiv170107267D

Martínez-Rodríguez, Héctor, and 9 colleagues Observational evidence for high neutronization in supernova remnants: implications for Type Ia supernova progenitors
2017arXiv170107073M

Minchev, I. Constraining the Milky Way assembly history with Galactic Archaeology
2017arXiv170107034M

Binney, James, and 1 colleagues Modelling the Milky Way's globular cluster system
2017arXiv170106995B

Banik, Indranil, and 1 colleagues Anisotropic Distribution of High Velocity

Galaxies in the Local Group 2017arXiv170106559B

Evans, D. W., and 14 colleagues Gaia Data Release 1: Validation of the photometry 2017arXiv170105873E

Adibekyan, V., and 13 colleagues Sun-like stars unlike the Sun: Clues for chemical anomalies of cool stars 2017arXiv170105737A

Zhang, Shaohua, and 9 colleagues Ultraviolet and Optical Emission-line Outflows in the Heavily Obscured Quasar SDSS J000610.67+121501.2: At the Scale of the Dusty Torus and Beyond 2017arXiv170104501Z

Latter, Henrik N., and 2 colleagues Planetary rings and other astrophysical disks 2017arXiv170104312L

Martinez-Medina, L. A., and 3 colleagues Dynamics and Morphology of the Milky Way Spiral Arms from the Metallicity Distribution and Radial Mixing 2017arXiv170103790M

Müller, Oliver, and 3 colleagues The M101 group complex: new dwarf galaxy candidates and spatial structure 2017arXiv170103681M

Kumamoto, Jun, and 2 colleagues Imprints of Zero-Age Velocity Dispersions and Dynamical Heating on the Age-Velocity dispersion Relation 2017arXiv170103668K

Carretta, Eugenio, and 7 colleagues Chemical characterization of the globular cluster NGC 5634 associated to the Sagittarius dwarf spheroidal galaxy 2017arXiv170103116C

Wang, Shao-Jiang, and 2 colleagues Smoothing the Redshift Distributions of Random Samples for the Baryon Acoustic Oscillations : Applications to the SDSS-III BOSS DR12 and QPM Mock Samples 2017arXiv170102427W

Nhung, P. T., and 6 colleagues High resolution ALMA observation of the $\rho^{12}\text{CO}(3-2)$ and 350 GHz continuum emissions of the debris disc of 49 Ceti 2017arXiv170102131N

Meng, Huan Y. A., and 3 colleagues The first 40 million years of circumstellar disk evolution: the signature of terrestrial planet formation 2017arXiv170101786M

Zahid, H. Jabran, and 1 colleagues Velocity Dispersion, Size, Sersic Index and D_n4000 : The Scaling of Stellar Mass with Dynamical Mass for Quiescent Galaxies 2017arXiv170101350Z

Yu, W., and 2 colleagues Vizic: A Jupyter-based Interactive Visualization Tool for Astronomical Catalogs 2017arXiv170101222Y

Lamberts, A., and 9 colleagues Numerical simulations and infrared spectro-interferometry reveal the wind collision region in gamma2 Velorum 2017arXiv170101124L

Lee, Gwang-Ho, and 3 colleagues The Fastest Galaxy Evolution in an Unbiased Compact Group Sample with WISE 2017arXiv170101102L

Gao, Yulong, and 10 colleagues A sample of metal-poor galaxies identified from the LAMOST spectral survey 2017arXiv170101011G

Oguri, Masamune, and 24 colleagues An optically-selected cluster catalog at redshift $0.1 < z < 1.1$ from the Hyper Suprime-Cam Subaru Strategic Program S16A data 2017arXiv1701008180

Kholtygin, A. F., and 6 colleagues Fast spectral variations of OBA stars
2017arXiv170100733K

Martinez, Arturo O., and 14 colleagues Stellar & Planetary Parameters for
K2's Late Type Dwarf Systems from C1 to C5 2017arXiv170100588M

Dressing, Courtney D., and 5 colleagues Characterizing K2 Candidate
Planetary Systems Orbiting Low-Mass Stars I: Classifying Low-mass Host
Stars Observed During Campaigns 1-7 2017arXiv170100586D

Nidever, David L., and 38 colleagues SMASH - Survey of the Magellanic
Stellar History 2017arXiv170100502N

Arenou, F., and 44 colleagues Gaia Data Release 1: Catalogue validation
2017arXiv170100292A

Branchini, Enzo, and 6 colleagues Cross-correlating the γ -ray Sky with
Catalogs of Galaxy Clusters 2017ApJS..228....8B

Ricci, C., and 36 colleagues NuSTAR Observations of WISE J1036+0449, a
Galaxy at $z \sim 1$ Obscured by Hot Dust 2017ApJ...835..105R

Bisterzo, S., and 4 colleagues Galactic Chemical Evolution: The Impact of
the $\langle \text{C} \rangle$ -pocket Structure on the s-process Distribution
2017ApJ...835...97B

Martinez-Garcia, Eric E., and 3 colleagues Removing Biases in
Resolved
Stellar Mass Maps of Galaxy Disks through Successive Bayesian Marginalize
2017ApJ...835...93M

Zhang, Junbo, and 4 colleagues NLTE Analysis of High-resolution H-band
Spectra. II. Neutral Magnesium 2017ApJ...835...90Z

Kashino, D., and 24 colleagues The FMOS-COSMOS Survey of Star-forming
Galaxies at $z \approx 1.6$. IV. Excitation State and Chemical Enrichment of the
Interstellar Medium 2017ApJ...835...88K

Stello, Dennis, and 13 colleagues The K2 Galactic Archaeology Program Data
Release. I. Asteroseismic Results from Campaign 1 2017ApJ...835...83S

Marigo, Paola, and 15 colleagues A New Generation of PARSEC-COLIBRI Stellar
Isochrones Including the TP-AGB Phase 2017ApJ...835...77M

Janes, K. A. Rotation Periods of Wide Binaries in the Kepler Field
2017ApJ...835...75J

Guillochon, James, and 3 colleagues An Open Catalog for Supernova Data
2017ApJ...835...64G

Vreeswijk, Paul M., and 29 colleagues On the Early-time Excess Emission in
Hydrogen-poor Superluminous Supernovae 2017ApJ...835...58V

Toba, Yoshiki, and 22 colleagues Clustering of Infrared-bright
Dust-obscured Galaxies Revealed by the Hyper Suprime-Cam and WISE
2017ApJ...835...36T

Davenport, James R. A. Rotating Stars from Kepler Observed with Gaia DR1
2017ApJ...835...16D

Jerkstrand, A., and 15 colleagues Long-duration Superluminous Supernovae at
Late Times 2017ApJ...835...13J

Choquet, Eulodie, and 33 colleagues First Scattered-light Images of the

Gas-rich Debris Disk around 49 Ceti 2017ApJ...834L..12C

Tendulkar, S. P., and 23 colleagues The Host Galaxy and Redshift of the Repeating Fast Radio Burst FRB 121102 2017ApJ...834L...7T

Olmo-García, A., and 7 colleagues Kinematics of Extremely Metal-poor Galaxies: Evidence for Stellar Feedback 2017ApJ...834..1810

Lyne, A. G., and 40 colleagues Timing of 29 Pulsars Discovered in the PALFA Survey 2017ApJ...834..137L

Massaro, F., and 5 colleagues Radio-weak BL Lac Objects in the Fermi Era 2017ApJ...834..113M

Mitsuda, Kazuma, and 7 colleagues Isophote Shapes of Early-type Galaxies in Massive Clusters at $z \sim 1$ and 0 2017ApJ...834..109M

Blagorodnova, N., and 32 colleagues Common Envelope Ejection for a Luminous Red Nova in M101 2017ApJ...834..107B

Colucci, Janet E., and 2 colleagues Globular Cluster Abundances from High-resolution, Integrated-light Spectroscopy. II. Expanding the Metallicity Range for Old Clusters and Updated Analysis Techniques 2017ApJ...834..105C

Spacek, Alexander, and 4 colleagues Searching for Fossil Evidence of AGN Feedback in WISE-selected Stripe-82 Galaxies by Measuring the Thermal Sunyaev-Zeldovich Effect with the Atacama Cosmology Telescope 2017ApJ...834..102S

Guo, Zhao, and 2 colleagues Tidally Induced Pulsations in Kepler Eclipsing Binary KIC 3230227 2017ApJ...834...59G

Minchev, I., and 6 colleagues The Relationship between Mono-abundance and Mono-age Stellar Populations in the Milky Way Disk 2017ApJ...834...27M

Chen, Jingjing, and 1 colleagues Probabilistic Forecasting of the Masses and Radii of Other Worlds 2017ApJ...834...17C

Mihos, J. Christopher, and 7 colleagues The Burrell Schmidt Deep Virgo Survey: Tidal Debris, Galaxy Halos, and Diffuse Intracluster Light in the Virgo Cluster 2017ApJ...834...16M

Tunçel Güntekin, S., and 6 colleagues Metallicity calibration and photometric parallax estimation: II. SDSS photometry 2017Ap&SS.362...17T

Guo, Jianpo, and 3 colleagues The effects of the Reimers η on the solar rotational period when our Sun evolves to the RGB tip 2017Ap&SS.362...15G

Luhman, K. L., and 3 colleagues A Survey for New Members of the Taurus Star-forming Region with the Sloan Digital Sky Survey 2017AJ...153...46L

Sun, Leilei, and 11 colleagues Refined System Parameters and TTV Study of Transiting Exoplanetary System HAT-P-20 2017AJ...153...28S

Bayliss, D., and 36 colleagues EPIC 201702477b: A Transiting Brown Dwarf from K2 in a 41 day Orbit 2017AJ...153...15B

Davies, Guy R., and 16 colleagues Using red clump stars to correct the Gaia DR1 parallaxes 2017A&A...598L...4D

Buldgen, G., and 2 colleagues Analysis of the linear approximation of seismic inversions for various structural pairs 2017A&A...598A..21B

Pancino, E., and 62 colleagues The Gaia-ESO Survey: Calibration strategy
2017A&A...598A...5P

Masseron, T., and 1 colleagues The spectroscopic indistinguishability of
red giant branch and red clump stars 2017A&A...597L...3M

Milli, J., and 32 colleagues Discovery of a low-mass companion inside the
debris ring surrounding the F5V star HD 206893 2017A&A...597L...2M

Meusinger, H., and 3 colleagues A large sample of Kohonen selected E+A
(post-starburst) galaxies from the Sloan Digital Sky Survey
2017A&A...597A.134M

Laplace, Eva, and 6 colleagues Possible regular phenomena in EXO 2030+375
2017A&A...597A.124L

Riseley, C. J., and 3 colleagues Diffuse radio emission in MACS
J0025.4-1222: the effect of a major merger on bulk separation of ICM
components 2017A&A...597A..96R

Chiavassa, A., and 8 colleagues Measuring stellar granulation during planet
transits 2017A&A...597A..94C

Paciris, Isabelle, and 45 colleagues The Sloan Digital Sky Survey Quasar
Catalog: Twelfth data release 2017A&A...597A..79P

Nardetto, N., and 15 colleagues HARPS-N high spectral resolution
observations of Cepheids I. The Baade-Wesselink projection factor of δ ; Cep
revisited 2017A&A...597A..73N

Mazzotta Epifani, E., and 7 colleagues Nucleus of the active Centaur C/2011
P2 (PANSTARRS) 2017A&A...597A..59M

Vika, Marina, and 4 colleagues The physical properties of Spitzer/IRS
galaxies derived from their UV to 22 μ m spectral energy distribution
2017A&A...597A..51V

Dorn, Caroline, and 7 colleagues A generalized Bayesian inference method
for constraining the interiors of super Earths and sub-Neptunes
2017A&A...597A..37D

Anders, F., and 44 colleagues Galactic archaeology with asteroseismology
and spectroscopy: Red giants observed by CoRoT and APOGEE
2017A&A...597A..30A

Gallet, F., and 5 colleagues Impacts of stellar evolution and dynamics on
the habitable zone: The role of rotation and magnetic activity
2017A&A...597A..14G

Müller, Oliver, and 2 colleagues New low surface brightness dwarf galaxies
in the Centaurus group 2017A&A...597A...7M

Fridlund, Malcolm, and 2 colleagues The Way Forward 2016SSRv..205..349F

Madhusudhan, Nikku, and 3 colleagues Exoplanetary Atmospheres—Chemistry,
Formation Conditions, and Habitability 2016SSRv..205..285M

Hatzes, Artie P. The Architecture of Exoplanets 2016SSRv..205..267H

Baruteau, Clement, and 3 colleagues Formation, Orbital and Internal
Evolutions of Young Planetary Systems 2016SSRv..205...77B

Sigurdsson, Steinn New Clues as to Why Boyajian's Star is Dimming

2016PhyOJ...9..150S

Sheikh, Mohammed A., and 2 colleagues Avalanche Statistics Identify Intrinsic Stellar Processes near Criticality in KIC 8462852
2016PhRvL.117z1101S

Brahm, Rafael, and 11 colleagues An Independent Discovery of Two Hot Jupiters from the K2 Mission 2016PASP..12814402B

Lund, Mikkel N., and 12 colleagues Asteroseismic Properties of Solar-type Stars Observed with the NASA K2 Mission: Results from Campaigns 1-3 and Prospects for Future Observations 2016PASP..12814204L

Zhang, Bo, and 2 colleagues A Novel Sky-Subtraction Method Based on Non-negative Matrix Factorisation with Sparsity for Multi-object Fibre Spectroscopy 2016PASA...33...58Z

Goddard, D., and 27 colleagues SDSS-IV MaNGA: Spatially resolved star formation histories in galaxies as a function of galaxy mass and type 2016MNRAS.tmp.1598G

Greig, Bradley, and 3 colleagues Are we witnessing the epoch of reionisation at $z = 7.1$ from the spectrum of J1120+0641? 2016MNRAS.tmp.1582G

Oshagh, M., and 2 colleagues How eclipse time variations, eclipse duration variations, and radial velocities can reveal S-type planets in close eclipsing binaries 2016MNRAS.tmp.1555O

Clerc, N., and 19 colleagues SPIDERS: the spectroscopic follow-up of X-ray selected clusters of galaxies in SDSS-IV 2016MNRAS.463.4490C

Reddy, Arumalla B. S., and 2 colleagues The evolution of the Milky Way: new insights from open clusters 2016MNRAS.463.4366R

Nascimbeni, V., and 14 colleagues An all-sky catalogue of solar-type dwarfs for exoplanetary transit surveys 2016MNRAS.463.4210N

Cocorot, Benoit, and 7 colleagues Mass and metallicity requirement in stellar models for galactic chemical evolution applications 2016MNRAS.463.3755C

Choi, A., and 8 colleagues CFHTLenS and RCSLenS: testing photometric redshift distributions using angular cross-correlations with spectroscopic galaxy surveys 2016MNRAS.463.3737C

Harrison, Ian, and 3 colleagues SKA weak lensing - I. Cosmological forecasts and the power of radio-optical cross-correlations 2016MNRAS.463.3674H

Jing, Yingjie, and 12 colleagues Kinematics of the Galactic disc from a LAMOST dwarf sample 2016MNRAS.463.3390J

Alexandroff, Rachael M., and 4 colleagues Sensitive radio survey of obscured quasar candidates 2016MNRAS.463.3056A

Kirk, J., and 7 colleagues Transmission spectroscopy of the inflated exoplanet WASP-52b, and evidence for a bright region on the stellar surface 2016MNRAS.463.2922K

Ibarra-Medel, Hector J., and 12 colleagues SDSS IV MaNGA: the global and local stellar mass assembly histories of galaxies 2016MNRAS.463.2799I

Raghunathan, Srinivasan, and 5 colleagues Intervening Mg II absorption

systems from the SDSS DR12 quasar spectra 2016MNRAS.463.2640R

Huang, Y., and 11 colleagues The Milky Way's rotation curve out to 100 kpc and its constraint on the Galactic mass distribution 2016MNRAS.463.2623H

Lund, Mikkel N., and 16 colleagues Asteroseismology of the Hyades with K2: first detection of main-sequence solar-like oscillations in an open cluster 2016MNRAS.463.2600L

Fang, Xiang-Song, and 4 colleagues Stellar activity with LAMOST - I. Spot configuration in Pleiades 2016MNRAS.463.2494F

Scaringi, S., and 9 colleagues The peculiar dipping events in the disc-bearing young-stellar object EPIC 204278916 2016MNRAS.463.2265S

Mehrtens, Nicola, and 28 colleagues The XMM Cluster Survey: the halo occupation number of BOSS galaxies in X-ray clusters 2016MNRAS.463.1929M

Nardiello, D., and 7 colleagues A PSF-based approach to Kepler/K2 data - III. Search for exoplanets and variable stars within the open cluster M 67 (NGC 2682) 2016MNRAS.463.1831N

Libralato, M., and 9 colleagues A PSF-based approach to Kepler/K2 data - II. Exoplanet candidates in Praesepe (M 44) 2016MNRAS.463.1780L

Bernard, Edouard J., and 20 colleagues A Synoptic Map of Halo Substructures from the Pan-STARRS1 3π Survey 2016MNRAS.463.1759B

Chequers, Matthew H., and 3 colleagues Simulating a slow bar in the low surface brightness galaxy UGC 628 2016MNRAS.463.1751C

Anderson, Richard I. Discovery of Cycle-to-cycle Modulated Spectral Line Variability and Velocity Gradients in Long-period Cepheids 2016MNRAS.463.1707A

Yu, Jie, and 7 colleagues Asteroseismology of 1523 misclassified red giants using Kepler data 2016MNRAS.463.1297Y

Hambleton, K., and 8 colleagues KIC 3749404: a heartbeat star with rapid apsidal advance indicative of a tertiary component 2016MNRAS.463.1199H

Chen, P. S., and 2 colleagues A new approach to the infrared photometric study of Be stars 2016MNRAS.463.1162C

Basu, Sarbani Global seismology of the Sun 2016LRSP...13....2B

Allende Prieto, Carlos Solar and stellar photospheric abundances 2016LRSP...13....1A

Neilson, H. R., and 2 colleagues Period Changes and Evolution in Pulsating Variable Stars 2016JAVSO..44..179N

Molnár, L., and 2 colleagues Variable Stars with the Kepler Space Telescope 2016JAVSO..44..168M

Hong, Zhi, and 5 colleagues AQUAdexIM: highly efficient in-memory indexing and querying of astronomy time series images 2016ExA....42..387H

Lee, Jae Woo, and 3 colleagues KIC 11401845: An Eclipsing Binary with Multiperiodic Pulsations and Light Travel Time 2016arXiv161209408L

Creevey, Orlagh, and 8 colleagues Characterizing solar-type stars from full-length Kepler data sets using the Asteroseismic Modeling Portal

2016arXiv161208990C

Faigler, Simchon BEER analysis of Kepler and CoRoT light curves:
discovering binaries and exoplanets 2016arXiv161208846F

Jiang, Yan-Fei, and 23 colleagues Detection of Time Lags Between Quasar
Continuum Emission Bands based on Pan-STARRS Light-curves
2016arXiv161208747J

Burenin, R., and 8 colleagues Sample of Cataclysmic Variables from 400d
X-ray Survey 2016arXiv161208407B

Donahue, Megan, and 3 colleagues Observations of Lyman-alpha and O VI:
Signatures of Cooling and Star Formation in a Massive Central Cluster
Galaxy 2016arXiv161208297D

Feix, Martin, and 2 colleagues Speed from light: growth rate and bulk flow
at $z \sim 0.1$ from improved SDSS DR13 photometry 2016arXiv161207809F

Feldt, M., and 24 colleagues SPHERE/SHINE reveals concentric rings in the
debris disk of HIP 73145 2016arXiv161207621F

Metzger, Brian D., and 2 colleagues Secular Dimming of KIC 8462852
Following its Consumption of a Planet 2016arXiv161207332M

Lyu, Jianwei, and 2 colleagues Dust-Deficient Palomar-Green Quasars and the
Diversity of AGN Intrinsic IR Emission 2016arXiv161206857L

Matsuno, Tadafumi, and 3 colleagues Lithium in CEMP-no stars: A new
constraint on the lithium depletion mechanism in the early universe
2016arXiv161206624M

Pericaud, J., and 4 colleagues The hybrid disks: a search and study to
better understand evolution of disks 2016arXiv161206582P

Sohn, Jubee, and 5 colleagues The Velocity Dispersion Function of Very
Massive Galaxy Clusters: Abell 2029 and Coma 2016arXiv161206428S

Beatty, Thomas G., and 7 colleagues Evidence for Atmospheric Cold-trap
Processes in the Non-inverted Emission Spectrum of Kepler-13Ab Using
HST/WFC3 2016arXiv161206409B

Neslusan, L., and 1 colleagues Mysterious eclipses in the light-curve of
KIC8462852: a possible explanation 2016arXiv161206121N

Getman, Konstantin V., and 7 colleagues Star Formation In Nearby Clouds
(SFiNCs): X-ray And Infrared Source Catalogs And Membership
2016arXiv161205282G

Theissen, Christopher A., and 4 colleagues The Late-Type Extension to
MoVeRS (LaTE-MoVeRS): Proper motion verified low-mass stars and brown
dwarfs from SDSS, 2MASS, and WISE 2016arXiv161205252T

Jofre, P., and 12 colleagues Gaia FGK Benchmark stars: Opening the black
box of stellar element abundance determination 2016arXiv161205013J

Douglass, Kelly A., and 1 colleagues Large-scale environmental dependence
of the abundance ratio of nitrogen to oxygen in blue, star-forming galaxies
fainter than L^* 2016arXiv161204908D

Beketeševi&ccacute;, Dino, and 1 colleagues Linear feature detection
algorithm for
astronomical surveys - I. Algorithm description 2016arXiv161204748B

Messina, S., and 21 colleagues The beta Pictoris association: Catalog of photometric rotational periods of low-mass members and candidate members 2016arXiv161204591M

Hill, R., and 8 colleagues Projected distances to host galaxy reduce SNIa dispersion 2016arXiv161204417H

Ko, Youkyung, and 8 colleagues To the Edge of M87 and Beyond: Spectroscopy of Intracluster Globular Clusters and Ultra Compact Dwarfs in the Virgo Cluster 2016arXiv161204393K

Hoeneisen, B. Study of baryon acoustic oscillations with SDSS DR13 data and measurements of Ω_k and $\Omega_{\text{DE}}(a)$ 2016arXiv161204226H

Janowiecki, Steven, and 4 colleagues Constraining the Stellar Populations and Star Formation Histories of Blue Compact Dwarf Galaxies with SED Fits 2016arXiv161204020J

Bischetti, M., and 21 colleagues The WISSH Quasars Project I. Powerful ionised outflows in hyper-luminous quasars 2016arXiv161203728B

Moll \grave{a} , M., and 6 colleagues The evolution of the radial gradient of Oxygen abundance in spiral galaxies 2016arXiv161203348M

Sicardy, Bruno, and 5 colleagues Rings beyond the giant planets 2016arXiv161203321S

Moll \grave{a} , M., and 5 colleagues The evolution of the Oxygen abundance radial gradient in the Milky Way Galaxy disk 2016arXiv161203064M

Geier, S., and 7 colleagues The population of hot subdwarf stars studied with Gaia I. The catalogue of known hot subdwarf stars 2016arXiv161202995G

van Leeuwen, F., and 93 colleagues Gaia data release 1, the photometric data 2016arXiv161202952V

Crouzet, N., and 22 colleagues Discovery of XO-6b: a hot Jupiter transiting a fast rotating F5 star on an oblique orbit 2016arXiv161202776C

Deeg, Hans J., and 1 colleagues TEE, a simple estimator for the precision of eclipse and transit minimum times 2016arXiv161202237D

Zheng, WeiKang, and 1 colleagues An Empirical Fitting Method for Type Ia Supernova Light Curves. I. A Case Study of SN 2011fe 2016arXiv161202097Z

Souto, Diogo, and 20 colleagues Chemical Abundances of M-dwarfs from the APOGEE Survey. I. The Exoplanet Hosting Stars Kepler-138 and Kepler-186 2016arXiv161201598S

Calderone, G., and 6 colleagues QSFIT: Automatic analysis of optical AGN spectra 2016arXiv161201580C

Mueller, Eva-Maria, and 6 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: constraining modified gravity 2016arXiv161200812M

Lund, Mikkel N., and 19 colleagues Standing on the shoulders of Dwarfs: the $\text{\$Kepler\}$ asteroseismic LEGACY sample I - oscillation mode parameters 2016arXiv161200436L

Pr \grave{a} , A., and 8 colleagues Physics Of Eclipsing Binaries. II. Toward the Increased Model Fidelity 2016ApJS..227...29P

Kim, Hak-Sub, and 5 colleagues A New Catalog of Homogenized Absorption Line Indices for Milky Way Globular Clusters from High-resolution Integrated Spectroscopy 2016ApJS..227...24K

Aguilera-Gomez, Claudia, and 3 colleagues On Lithium-rich Red Giants: Engulfment on the Giant Branch of Trumpler 20 2016ApJ...833L..24A

Mathur, S., and 7 colleagues ERRATUM: "Probing the deep end of the Milky Way with Kepler: Asteroseismic Analysis of 854 faint Red Giants misclassified as Cool Dwarfs" (2016, ApJ, 827, 50) 2016ApJ...833..294M

Zhang, Huanian, and 4 colleagues Hydrogen Emission from the Ionized Gaseous Halos of Low-redshift Galaxies 2016ApJ...833..276Z

Vican, Laura, and 6 colleagues Herschel Observations of Dusty Debris Disks 2016ApJ...833..263V

Toyouchi, Daisuke, and 1 colleague Bimodal Distribution of Galactic Disk Stars on the α /Fe-Fe/H Plane as a Possible Evidence of Discontinuous Radial Migration History 2016ApJ...833..239T

Cooke, Kevin C., and 5 colleagues Star Formation in Intermediate Redshift $0.2 < z < 0.7$ Brightest Cluster Galaxies 2016ApJ...833..224C

Jensen, Trey W., and 19 colleagues Spectral Evolution in High Redshift Quasars from the Final Baryon Oscillation Spectroscopic Survey Sample 2016ApJ...833..199J

Quinn, Samuel N., and 1 colleague Obliquities of Exoplanet Host Stars from Precise Distances and Stellar Angular Diameters 2016ApJ...833..173Q

Zhang, Junbo, and 4 colleagues NLTE Analysis of High-Resolution H-band Spectra. I. Neutral Silicon 2016ApJ...833..137Z

Cai, Zheng, and 10 colleagues Mapping the Most Massive Overdensity Through Hydrogen (MAMMOTH) I: Methodology 2016ApJ...833..135C

Coker, Carl T., and 2 colleagues Evidence for Cluster to Cluster Variations in Low-mass Stellar Rotational Evolution 2016ApJ...833..122C

Hasselquist, Sten, and 16 colleagues Identification of Neodymium in the Apogee H-Band Spectra 2016ApJ...833...81H

Makarov, Valeri V., and 1 colleague Photometric and Astrometric Vagaries of the Enigma Star KIC 8462852 2016ApJ...833...78M

Vera-Ciro, Carlos, and 2 colleagues The Imprint of Radial Migration on the Vertical Structure of Galaxy Disks 2016ApJ...833...42V

Schroetter, I., and 15 colleagues Muse Gas Flow and Wind (MEGAFLOW). I. First MUSE Results on Background Quasars 2016ApJ...833...39S

Bovy, Jo, and 3 colleagues The Shape of the Inner Milky Way Halo from Observations of the Pal 5 and GD-1 Stellar Streams 2016ApJ...833...31B

Pattarakijwanich, Petchara, and 3 colleagues The Evolution of Post-starburst Galaxies from $z \sim 1$ to the Present 2016ApJ...833...19P

Kim, Dongwon, and 8 colleagues Portrait of a Dark Horse: a Photometric and Spectroscopic Study of the Ultra-faint Milky Way Satellite Pegasus III 2016ApJ...833...16K

Harrison, Thomas E. Abundance Derivations for the Secondary Stars in Cataclysmic Variables from Near-infrared Spectroscopy 2016ApJ...833...14H

Liu, T., and 12 colleagues A Systematic Search for Periodically Varying Quasars in Pan-STARRS1: An Extended Baseline Test in Medium Deep Survey Field MD09 2016ApJ...833....6L

Zahid, H. Jabran, and 3 colleagues The Scaling of Stellar Mass and Central Stellar Velocity Dispersion for Quiescent Galaxies at $z < 0.7$ 2016ApJ...832..203Z

Zhu, Wei, and 2 colleagues Dependence of Small Planet Frequency on Stellar Metallicity Hidden by Their Prevalence 2016ApJ...832..196Z

Kostov, Veselin B., and 4 colleagues Tatooine's Future: The Eccentric Response of Kepler's Circumbinary Planets to Common-envelope Evolution of Their Host Stars 2016ApJ...832..183K

Cheung, Edmond, and 26 colleagues SDSS-IV MaNGA: A Serendipitous Observation of a Potential Gas Accretion Event 2016ApJ...832..182C

Astraatmadja, Tri L., and 1 colleagues Estimating Distances from Parallaxes. II. Performance of Bayesian Distance Estimators on a Gaia-like Catalogue 2016ApJ...832..137A

Stello, Dennis, and 8 colleagues The K2 M67 Study: Revisiting Old Friends with K2 Reveals Oscillating Red Giants in the Open Cluster M67 2016ApJ...832..133S

Zasowski, G., and 5 colleagues Kinematics in the Galactic Bulge with APOGEE. II. High-Order Kinematic Moments and Comparison to Extragalactic Bar Diagnostics 2016ApJ...832..132Z

Burchett, Joseph N., and 8 colleagues A Deep Search for Faint Galaxies Associated with Very Low Redshift CIV Absorbers. III. The Mass- and Environment-dependent Circumgalactic Medium 2016ApJ...832..124B

Gaulme, P., and 9 colleagues Testing the Asteroseismic Scaling Relations for Red Giants with Eclipsing Binaries Observed by Kepler 2016ApJ...832..121G

Li, Xiao-Dong, and 7 colleagues Cosmological Constraints from the Redshift Dependence of the Alcock-Paczynski Effect: Application to the SDSS-III BOSS DR12 Galaxies 2016ApJ...832..103L

Schombert, James M. Colors of Ellipticals from GALEX to Spitzer 2016AJ....152..214S

Bannister, Michele T., and 34 colleagues OSSOS. IV. Discovery of a Dwarf Planet Candidate in the 9:2 Resonance with Neptune 2016AJ....152..212B

Foreman-Mackey, Daniel, and 4 colleagues The Population of Long-period Transiting Exoplanets 2016AJ....152..206F

Hutchinson, Timothy A., and 16 colleagues Redshift Measurement and Spectral Classification for eBOSS Galaxies with the redmonster Software 2016AJ....152..205H

Maas, Z. G., and 2 colleagues Chlorine Abundances in Cool Stars 2016AJ....152..196M

Kjurkchieva, Diana, and 2 colleagues Light Curve Solutions of 12 Eccentric Kepler Binaries and Analysis of Their Out-of-eclipse Variability 2016AJ....152..189K

Hartman, J. D., and 27 colleagues HAT-P-65b and HAT-P-66b: Two Transiting Inflated Hot Jupiters and Observational Evidence for the Reinflation of Close-in Giant Planets 2016AJ....152..182H

Herrmann, Kimberly A., and 3 colleagues Mass-to-light versus Color Relations for Dwarf Irregular Galaxies 2016AJ....152..177H

O'Connell, Julia E., and 2 colleagues Chemical Abundance Analysis of Moving Group W1450 (Latham 1) 2016AJ....152..176O

Ishiguro, Masateru, and 23 colleagues 2014-2015 Multiple Outbursts of 15P/Finlay 2016AJ....152..169I

Liang, En-Si, and 8 colleagues Stellar Flares in the CSTAR Field: Results from the 2008 Data Set 2016AJ....152..168L

Otor, Oderah Justin, and 22 colleagues The Orbit and Mass of the Third Planet in the Kepler-56 System 2016AJ....152..165O

de Val-Borro, M., and 26 colleagues HATS-31b through HATS-35b: Five Transiting Hot Jupiters Discovered By the HATSouth Survey 2016AJ....152..161D

Twicken, Joseph D., and 27 colleagues Detection of Potential Transit Signals in 17 Quarters of Kepler Data: Results of the Final Kepler Mission Transiting Planet Search (DR25) 2016AJ....152..158T

Sperauskas, J., and 5 colleagues Radial velocities of K-M dwarfs and local stellar kinematics 2016A&A...596A..116S

Allende Prieto, Carlos, and 2 colleagues The rotation-metallicity relation for the Galactic disk as measured in the Gaia DR1 TGAS and APOGEE data 2016A&A...596A..98A

Schmidt, E. O., and 3 colleagues Spectral nuclear properties of NLS1 galaxies 2016A&A...596A..95S

Eversberg, Thomas Off-the-shelf Echelle Spectroscopy: Two Devices on the Test Block 2016PASP...128k5001E

Demchenko, Vasilii, and 3 colleagues Testing the spherical evolution of cosmic voids 2016MNRAS.463..512D

Martinez-Medina, L. A., and 3 colleagues Revealing the spiral arms through radial migration and the shape of the metallicity distribution function 2016MNRAS.463..459M

Contro, B., and 4 colleagues Modelling the inner debris disc of HR 8799 2016MNRAS.463..191C

Łukarśka, D., and 21 colleagues Transiting planet candidates with ASTEP 400 at Dome C, Antarctica 2016MNRAS.463...45M

Lyu, Yang, and 1 colleague A high fraction of double-peaked narrow emission lines in powerful active galactic nuclei 2016MNRAS.463...24L

Izotov, Y. I., and 3 colleagues The bursting nature of star formation in compact star-forming galaxies from the Sloan Digital Sky Survey 2016MNRAS.462.4427I

Blake, Chris, and 18 colleagues The 2-degree Field Lensing Survey: design and clustering measurements 2016MNRAS.462.4240B

Lavoie, S., and 35 colleagues The XXL survey XV: evidence for dry merger driven BCG growth in XXL-100-GC X-ray clusters 2016MNRAS.462.4141L

Bard, Christopher, and 1 colleagues Effect of a magnetic field on massive-star winds - I. Mass-loss and velocity for a dipole field 2016MNRAS.462.3672B

Chiaro, G., and 5 colleagues Blazar flaring patterns (B-FlaP) classifying blazar candidate of uncertain type in the third Fermi-LAT catalogue by artificial neural networks 2016MNRAS.462.3180C

Biggs, A. D., and 4 colleagues Parsec-scale H I absorption structure in a low-redshift galaxy seen against a compact symmetric object 2016MNRAS.462.2819B

Taufik Andika, Irham, and 2 colleagues On the nature of type 1 AGN: emission properties and correlations 2016JPhCS.771a2029T

Laurent, Pierre, and 18 colleagues A 14 h⁻³ Gpc³ study of cosmic homogeneity using BOSS DR12 quasar sample 2016JCAP...11..060L

Mukherjee, Ankan Reconstruction of interaction rate in holographic dark energy 2016JCAP...11..055M

Benko, J. M. V620 Oph = CoRoT 104190253 - a misclassified RR Lyrae star 2016IBVS.6189....1B

Beck, P. G., and 23 colleagues Probing Seismic Solar Analogues Through Observations With The NASA Kepler Space Telescope and Hermes High-Resolution Spectrograph 2016csss.confE..42B

Lanza, A. F., and 1 colleagues Tides and angular momentum redistribution inside low-mass stars hosting planets: a first dynamical model 2016CeMDA.126..249L

Moll´, M., and 4 colleagues Galactic Chemical Evolution 2016arXiv161109553M

Debattista, Victor P., and 5 colleagues Separation of Stellar Populations by an Evolving Bar: Implications for the Bulge of the Milky Way 2016arXiv161109023D

Jensen, Trey W., and 19 colleagues Spectral Evolution in High Redshift Quasars from the Final BOSS Sample 2016arXiv161108884J

Silva Aguirre, Victor, and 23 colleagues Standing on the shoulders of Dwarfs: the Kepler asteroseismic LEGACY sample II - radii, masses, and ages 2016arXiv161108776S

Hood, R. J., and 1 colleagues Characterising the optical properties of galaxy clusters with GMPhoRCC 2016arXiv161108694H

Leauthaud, Alexie, and 21 colleagues Lensing is Low: Cosmology, Galaxy Formation, or New Physics? 2016arXiv161108606L

Pouliasis, Ektoras, and 2 colleagues A Milky Way with a massive, centrally concentrated thick disc: new Galactic mass models for orbit computations 2016arXiv161107979P

Duarte Puertas, S., and 5 colleagues Aperture-free star formation rate of SDSS star-forming galaxies 2016arXiv161107935D

Oelkers, Ryan J., and 2 colleagues Gaia Assorted Mass Binaries Long Excluded from SLOWPOKES (GAMBLES): Identifying Wide Binary Pairs with Components of Diverse Mass 2016arXiv1611078830

Binks, Alex S., and 1 colleagues A WISE-based search for debris discs amongst M-dwarfs in nearby, young, moving groups 2016arXiv161107416B

Scodeggio, M., and 44 colleagues The VIMOS Public Extragalactic Redshift Survey (VIPERS). Full spectroscopic data and auxiliary information release (PDR-2) 2016arXiv161107048S

Jones, D. O., and 20 colleagues Cosmology with Contaminated Samples: Methods of Measuring Dark Energy with Photometrically Classified Pan-STARRS Supernovae 2016arXiv161107042J

F´spica, P. I., and 11 colleagues Signatures of internal rotation discovered in the Kepler data of five slowly pulsating B stars 2016arXiv161106955P

Guseva, N. G., and 3 colleagues Searching for metal-deficient emission-line galaxy candidates: the final sample of the SDSS DR12 galaxies 2016arXiv161106881G

Talia, M., and 22 colleagues AGN-enhanced outflows in star-forming galaxies at $1.7 < z < 4.6$: the low-ionization gas perspective 2016arXiv161105884T

Salabert, D., and 3 colleagues Effect of Kepler calibration on global seismic and background parameters 2016arXiv161105184S

Zwintz, Konstanze The potential of space observations for pulsating pre-main sequence stars 2016arXiv161104919Z

Carretta, Eugenio Spectroscopic evidence of Multiple Stellar Populations in Globular Clusters 2016arXiv161104728C

Okoli, Chiamaka, and 3 colleagues Dynamical friction in the primordial neutrino sea 2016arXiv1611045890

Carleton, Timothy, and 12 colleagues PHIBSS: Exploring the Dependence of the CO-H₂ Conversion Factor on Total Mass Surface Density at $1 < z < 1.5$ 2016arXiv161104587C

Schoeller, M., and 18 colleagues B fields in OB stars (BOB): Concluding the FORS2 observing campaign 2016arXiv161104502S

Jun, Hyunsung D., and 3 colleagues The Most Massive Active Galactic Nuclei at $1 < z < 2$ 2016arXiv161104468J

Mathur, Savita, and 7 colleagues Probing the Deep End of the Milky Way with New Oscillating Kepler Giants 2016arXiv161104237M

Jofre, Paula, and 3 colleagues Cosmic phylogeny: reconstructing the chemical history of the solar neighbourhood with an evolutionary tree 2016arXiv161102575J

Kiefer, René, and 3 colleagues Stellar magnetic activity and variability of oscillation parameters - An investigation of 24 solar-like stars observed by Kepler 2016arXiv161102029K

Beck, Röbert, and 4 colleagues Photo-z-SQL: integrated, flexible photometric redshift computation in a database 2016arXiv161101560B

Beck, P. G., and 12 colleagues Constraining stellar physics from red-giant

stars in binaries - stellar rotation, mixing processes and stellar activity
2016arXiv161101402B

Overbeek, J. C., and 35 colleagues The Gaia-ESO Survey: the inner disk,
intermediate-age open cluster Trumpler 23 2016arXiv1611008590

Singh, Sukhdeep, and 4 colleagues Galaxy-galaxy lensing estimators and
their covariance properties 2016arXiv161100752S

Wojno, Jennifer, and 25 colleagues The selection function of the RAVE
survey 2016arXiv161100733W

Holoien, Thomas W.-S., and 2 colleagues EmpiriciSN: Re-sampling Observed
Supernova/Host Galaxy Populations using an XD Gaussian Mixture Model
2016arXiv161100363H

Malkin, Z. M. The second version of the OCARS catalog of optical
characteristics of astrometric radio sources 2016ARep...60..996M

Powalka, Mathieu, and 19 colleagues The Next Generation Virgo Cluster
Survey (NGVS). XXV. Fiducial Panchromatic Colors of Virgo Core Globular
Clusters and Their Comparison to Model Predictions 2016ApJS..227...12P

Bañados, E., and 35 colleagues The Pan-STARRS1 Distant $z > 5.6$ Quasar
Survey: More than 100 Quasars within the First Gyr of the Universe
2016ApJS..227...11B

Salim, Samir, and 8 colleagues GALEX-SDSS-WISE Legacy Catalog (GSWLC): Star
Formation Rates, Stellar Masses, and Dust Attenuations of 700,000
Low-redshift Galaxies 2016ApJS..227....2S

Leiner, Emily, and 4 colleagues The K2 M67 Study: An Evolved Blue Straggler
in M67 from K2 Mission Asteroseismology 2016ApJ...832L..13L

Fu, Hai, and 16 colleagues The Circumgalactic Medium of Submillimeter
Galaxies. I. First Results from a Radio-identified Sample
2016ApJ...832...52F

Boucher, Anne, and 6 colleagues BANYAN. VIII. New Low-mass Stars and Brown
Dwarfs with Candidate Circumstellar Disks 2016ApJ...832...50B

Li, Yun, and 3 colleagues The Long-term Dynamical Evolution of
Disk-fragmented Multiple Systems in the Solar Neighborhood
2016ApJ...831..166L

Margala, Daniel, and 5 colleagues Improved Spectrophotometric Calibration
of the SDSS-III BOSS Quasar Sample 2016ApJ...831..157M

Yu, Heng, and 4 colleagues The Unrelaxed Dynamical Structure of the Galaxy
Cluster Abell 85 2016ApJ...831..156Y

Sheehan, Patrick D., and 3 colleagues A VLA Survey for Faint Compact Radio
Sources in the Orion Nebula Cluster 2016ApJ...831..155S

Zahid, H. Jabran, and 7 colleagues Compact E+A Galaxies as a Progenitor of
Massive Compact Quiescent Galaxies at $0.2 < z < 0.8$ 2016ApJ...831..146Z

Martig, Marie, and 4 colleagues A Radial Age Gradient in the Geometrically
Thick Disk of the Milky Way 2016ApJ...831..139M

Pascucci, I., and 15 colleagues A Steeper than Linear Disk Mass-Stellar
Mass Scaling Relation 2016ApJ...831..125P

Ryde, N., and 6 colleagues Detailed Abundance Analysis of a Metal-poor

Giant in the Galactic Center 2016ApJ...831...40R

Howell, Steve B., and 4 colleagues Rapidly Rotating, X-Ray Bright Stars in the Kepler Field 2016ApJ...831...27H

Guzik, J. A., and 54 colleagues Detection of Solar-like Oscillations, Observational Constraints, and Stellar Models for θ ; Cyg, the Brightest Star Observed By the Kepler Mission 2016ApJ...831...17G

Sandquist, Eric L., and 11 colleagues The Age and Distance of the Kepler Open Cluster NGC 6811 from an Eclipsing Binary, Turnoff Star Pulsation, and Giant Asteroseismology 2016ApJ...831...11S

Scorovoda, Michal, and 1 colleague Flares on A-type Stars: Evidence for Heating of Solar Corona by Nanoflares? 2016ApJ...831...9S

Shen, Yue, and 11 colleagues The Sloan Digital Sky Survey Reverberation Mapping Project: Velocity Shifts of Quasar Emission Lines 2016ApJ...831...7S

Campana, R., and 2 colleagues Application of the MST clustering to the high energy γ -ray sky. IV—Blazar candidates found as possible counterparts of photon clusters 2016Ap&SS.361..367C

Zhou, George, and 47 colleagues KELT-17b: A Hot-Jupiter Transiting an A-star in a Misaligned Orbit Detected with Doppler Tomography 2016AJ...152..136Z

Penev, K., and 21 colleagues HATS-18b: An Extreme Short-period Massive Transiting Planet Spinning Up Its Star 2016AJ...152..127P

Rebull, L. M., and 17 colleagues Rotation in the Pleiades with K2. II. Multiperiod Stars 2016AJ...152..114R

Ma, Bo, and 36 colleagues Very Low-mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. VI. A Giant Planet and a Brown Dwarf Candidate in a Close Binary System HD 87646 2016AJ...152..112M

Mickaelian, A. M., and 4 colleagues Multiwavelength studies of X-ray selected extragalactic sample 2016A&AT...29..333M

Krakowski, T., and 5 colleagues Machine-learning identification of galaxies in the WISE \times SuperCOSMOS all-sky catalogue 2016A&A...596A..39K

Salabert, D., and 10 colleagues Photospheric and chromospheric magnetic activity of seismic solar analogs. Observational inputs on the solar-stellar connection from Kepler and Hermes 2016A&A...596A..31S

Messina, S., and 11 colleagues The rotation-lithium depletion correlation in the β Pictoris association and the LDB age determination 2016A&A...596A..29M

Bödi, A., and 2 colleagues Periodicities of the RV Tauri-type pulsating star DF Cygni: A combination of Kepler data with ground-based observations 2016A&A...596A..24B

Smith Castelli, A. V., and 2 colleagues Stellar systems in the direction of the Hickson Compact Group 44. I. Low surface brightness galaxies 2016A&A...596A..23S

Saulder, Christoph, and 4 colleagues The matter distribution in the local Universe as derived from galaxy groups in SDSS DR12 and 2MRS

2016A&A...596A..14S

Rieder, Steven, and 1 colleagues Constraints on the size and dynamics of the J1407b ring system 2016A&A...596A...9R

Mulcahy, D. D., and 9 colleagues Discovery of a low-luminosity spiral DRAGN 2016A&A...595L...8M

Crouzier, A., and 25 colleagues A detector interferometric calibration experiment for high precision astrometry 2016A&A...595A.108C

Bruno, G., and 9 colleagues Disentangling planetary and stellar activity features in the CoRoT-2 light curve 2016A&A...595A..89B

Deng, Xin-Fa, and 4 colleagues The influence of galaxy interactions on some parameters of galaxies 2016RMxAA..52..241D

Sadeh, I., and 2 colleagues ANNz2: Photometric Redshift and Probability Distribution Function Estimation using Machine Learning 2016PASP..128j4502S

Bowler, Brendan P. Imaging Extrasolar Giant Planets 2016PASP..128j2001B

Caballero, J. A., and 2 colleagues An upper limit to the mass of a close companion candidate to sigma Ori E 2016Obs...136..226C

Favole, Ginevra, and 6 colleagues Building a better understanding of the massive high-redshift BOSS CMASS galaxies as tools for cosmology 2016MNRAS.462.2218F

Whittam, I. H., and 3 colleagues The faint source population at 15.7 GHz - III. A high-frequency study of HERGs and LERGs 2016MNRAS.462.2122W

Peacock, J. A., and 6 colleagues The SuperCOSMOS all-sky galaxy catalogue 2016MNRAS.462.2085P

Buchan, Stewart, and 1 colleagues Setting firmer constraints on the evolution of the most massive, central galaxies from their local abundances and ages 2016MNRAS.462.2001B

Fumagalli, Michele, and 6 colleagues MUSE searches for galaxies near very metal-poor gas clouds at $z \approx 3$: new constraints for cold accretion models 2016MNRAS.462.1978F

Hardcastle, M. J., and 27 colleagues LOFAR/H-ATLAS: a deep low-frequency survey of the Herschel-ATLAS North Galactic Pole field 2016MNRAS.462.1910H

Rappaport, S., and 14 colleagues A quintuple star system containing two eclipsing binaries 2016MNRAS.462.1812R

Kaplan, Kyle F., and 8 colleagues The VIRUS-P Exploration of Nearby Galaxies (VENGA): spatially resolved gas-phase metallicity distributions in barred and unbarred spirals 2016MNRAS.462.1642K

Pandey, Biswajit A new method for testing isotropy with Shannon entropy 2016MNRAS.462.1630P

Yuan, Sihan, and 2 colleagues Spectroscopic identification of type 2 quasars at $z < 1$ in SDSS-III/BOSS 2016MNRAS.462.1603Y

Yıldız, M., and 2 colleagues Fundamental properties of Kepler and CoRoT targets - III. Tuning scaling relations using the first adiabatic exponent 2016MNRAS.462.1577Y

Manser, Christopher J., and 4 colleagues Another one grinds the dust: variability of the planetary debris disc at the white dwarf SDSS J104341.53+085558.2 2016MNRAS.462.1461M

Antolini, Elisa, and 1 colleagues Using the 2-MASS photometric redshift survey to optimize LIGO follow-up observations 2016MNRAS.462.1085A

Drazdauskas, Arnas, and 4 colleagues Chemical composition of evolved stars in the young open clusters NGC 4609 and NGC 5316 2016MNRAS.462..794D

Almosallam, Ibrahim A., and 2 colleagues GPZ: non-stationary sparse Gaussian processes for heteroscedastic uncertainty estimation in photometric redshifts 2016MNRAS.462..726A

Lochhaas, Cassandra, and 8 colleagues Modelling Lyman α ; forest cross-correlations with LyMAS 2016MNRAS.461.4353L

Wojno, Jennifer, and 19 colleagues Chemical separation of disc components using RAVE 2016MNRAS.461.4246W

Reshetnikov, Vladimir P., and 4 colleagues Galaxies with conspicuous optical warps 2016MNRAS.461.4233R

Verma, Kuldeep, and 4 colleagues Asteroseismic determination of fundamental parameters of Sun-like stars using multilayered neural networks 2016MNRAS.461.4206V

Richardson, Noel D., and 12 colleagues The CHARA Array resolves the long-period Wolf-Rayet binaries WR 137 and WR 138 2016MNRAS.461.4115R

Greaves, J. S., and 8 colleagues Gas and dust around A-type stars at tens of Myr: signatures of cometary breakup 2016MNRAS.461.3910G

Chen, Yen-Chi, and 6 colleagues Cosmic web reconstruction through density ridges: catalogue 2016MNRAS.461.3896C

Burdanov, Artem Y., and 19 colleagues First results of the Kourovka Planet Search: discovery of transiting exoplanet candidates in the first three target fields 2016MNRAS.461.3854B

Chuang, Chia-Hsun, and 25 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: single-probe measurements from CMASS anisotropic galaxy clustering 2016MNRAS.461.3781C

Roderick, T. A., and 3 colleagues Extended stellar substructure surrounding the Boötes I dwarf spheroidal galaxy 2016MNRAS.461.3702R

Izotov, Y. I., and 6 colleagues Detection of high Lyman continuum leakage from four low-redshift compact star-forming galaxies 2016MNRAS.461.3683I

Kuzma, P. B., and 3 colleagues The outer envelopes of globular clusters - I. NGC 7089 (M2) 2016MNRAS.461.3639K

Vulic, N., and 2 colleagues X-rays beware: the deepest Chandra catalogue of point sources in M31 2016MNRAS.461.3443V

Favole, Ginevra, and 17 colleagues Clustering properties of g-selected galaxies at $z \sim 0.8$ 2016MNRAS.461.3421F

Stevens, Adam, and 2 colleagues Observational signatures of self-destructive civilizations 2016IJAsB..15..333S

Tamm, Antti, and 2 colleagues The different lives of galaxies at different environment density levels 2016IAUS..308..408T

Edwin Peebles, Phillip James Robert Dicke and the naissance of experimental gravity physics, 1957-1967 2016EPJH..tmp...11E

Khovrichev, M. Yu., and 9 colleagues Detection of the binarity of the star J1158+4239 2016AstL...42..686K

Glagolevskij, Yu. V., and 1 colleagues Features of magnetic field structures in chemically peculiar stars. IV 2016AstBu..71..453G

Trager, S. C. Multi-Object Spectroscopy in the Next Decade: A Conference Summary 2016ASPC..507..465T

Walton, N. A. Gaia and WEAVE/WxES: Supporting the PLATO Exoplanet Hunter 2016ASPC..507..429W

Tojeiro, R., and 2 colleagues The Latest Clustering Results from BOSS 2016ASPC..507..337T

Bershady, M. A. Transformations in our Understanding of Galaxy Evolution 2016ASPC..507..217B

Feltzing, S. Galactic Archeology - Requirements on Survey Spectrographs 2016ASPC..507...85F

Martell, S. L. The GALAH Survey and Galactic Archaeology in the Next Decade 2016ASPC..507...51M

Kawata, D., and 3 colleagues Geometrical Structures of Chemically Decomposed Thick and Thin Disk Populations 2016ASPC..507...27K

Wyse, R. F. G. Galactic Archaeology: Current Surveys and Instrumentation 2016ASPC..507...13W

Goobar, A., and 33 colleagues The discovery of the multiply-imaged lensed Type Ia supernova iPTF16geu 2016arXiv161100014G

Zhang, Jia, and 2 colleagues Candidates of eclipsing multiples based on extraneous eclipses on binary light curves: KIC 7622486, KIC 7668648, KIC 7670485 and KIC 8938628 2016arXiv161009446Z

Klagyivik, P., and 4 colleagues Limits to the presence of transiting circumbinary planets in CoRoT data 2016arXiv161008471K

Price-Whelan, Adrian M., and 3 colleagues The Joker: A custom Monte Carlo sampler for binary-star and exoplanet radial velocity data 2016arXiv161007602P

Smith, Nathan, and 1 colleagues The canonical Luminous Blue Variable AG Car and its neighbor Hen 3-519 are much closer than previously assumed 2016arXiv161006522S

Zhang, Junbo, and 4 colleagues NLTE Analysis of High Resolution H-band Spectra. I. Neutral Silicon 2016arXiv161005888Z

Shields, Aomawa L., and 2 colleagues The Habitability of Planets Orbiting M-dwarf Stars 2016arXiv161005765S

Galli, P. A. B., and 5 colleagues A revised moving cluster distance to the Pleiades open cluster 2016arXiv161005641G

Pelisolì, Ingrid, and 3 colleagues What's the nature of sdA stars? 2016arXiv161005550P

Wojtak, Radosław, and 1 colleagues Redshift remapping and cosmic acceleration in dark-matter-dominated cosmological models 2016arXiv161003599W

Vargas-Magaña, Mariana, and 20 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: theoretical systematics and Baryon Acoustic Oscillations in the galaxy correlation function 2016arXiv161003506V

Demetroullas, Constantinos, and 1 colleagues Galaxy-galaxy and galaxy-cluster lensing with the SDSS and FIRST surveys 2016arXiv161003492D

Lacki, Brian C. The High Rate of the Boyajian's Star Anomaly as a Phenomenon 2016arXiv161003219L

Do, Tuan, and 9 colleagues Observational constraints on the formation and evolution of the Milky Way nuclear star cluster with Keck and Gemini 2016arXiv161002964D

Mas-Ribas, Lluís, and 8 colleagues The Mean Metal-line Absorption Spectrum of Damped Lyman Alpha Systems in BOSS 2016arXiv161002711M

Lund, Mikkel N., and 4 colleagues Data preparation for asteroseismology with TESS 2016arXiv161002702L

Côté, Benoit, and 6 colleagues Advanced LIGO Constraints on Neutron Star Mergers and R-Process Sites 2016arXiv161002405C

Salabert, D., and 2 colleagues Magnetic activity of seismic solar analogs 2016arXiv161002195S

Medezinski, Elinor, and 6 colleagues Testing the Large-Scale Environments of Cool-core and Noncool-core Clusters with Clustering Bias 2016arXiv161001624M

Wyatt, M. C., and 4 colleagues How to design a planetary system for different scattering outcomes: giant impact sweet spot, maximising exocomets, scattered disks 2016arXiv161000714W

Anderson, R. I., and 11 colleagues Vetting Galactic Leavitt Law Calibrators Using Radial Velocities: On the Variability, Binarity, and Possible Parallax Error of 19 Long-period Cepheids 2016ApJS..226...18A

Montet, Benjamin T., and 1 colleagues KIC 8462852 Faded throughout the Kepler Mission 2016ApJ...830L..39M

Prieto, J. L., and 15 colleagues MUSE Reveals a Recent Merger in the Post-starburst Host Galaxy of the TDE ASASSN-14li 2016ApJ...830L..32P

Nadathur, Seshadri, and 1 colleagues A Detection of the Integrated Sachs-Wolfe Imprint of Cosmic Superstructures Using a Matched-filter Approach 2016ApJ...830L..19N

Karoff, Christoffer, and 3 colleagues Chromosomes Emission of Planet Candidate Host Stars: A Way to Identify False Positives 2016ApJ...830L...7K

Alatalo, Katherine, and 6 colleagues After the Interaction: an Efficiently Star-forming Molecular Disk in NGC 5195 2016ApJ...830..137A

Libeskind, Noam I., and 3 colleagues The Lopsided Distribution of Satellite Galaxies 2016ApJ...830..121L

Trick, Wilma H., and 2 colleagues Action-Based Dynamical Modeling for the Milky Way Disk 2016ApJ...830...97T

Kuchner, Marc J., and 26 colleagues Disk Detective: Discovery of New Circumstellar Disk Candidates through Citizen Science 2016ApJ...830...84K

Conselice, Christopher J., and 3 colleagues The Evolution of Galaxy Number Density at $z \lesssim 8$ and Its Implications 2016ApJ...830...83C

Zhang, Xudong, and 1 colleague The Covering Factor of Warm Dust in Weak Emission-line Active Galactic Nuclei 2016ApJ...830...69Z

Bellinger, Earl P., and 5 colleagues Fundamental Parameters of Main-Sequence Stars in an Instant with Machine Learning 2016ApJ...830...31B

Perley, D. A., and 11 colleagues Host-galaxy Properties of 32 Low-redshift Superluminous Supernovae from the Palomar Transient Factory 2016ApJ...830...13P

Petrovich, Cristobal, and 1 colleague Warm Jupiters from Secular Planet-Planet Interactions 2016ApJ...829..132P

Aguilera-Gomez, Claudia, and 3 colleagues On Lithium-rich Red Giants. I. Envelopment of Substellar Companions 2016ApJ...829..127A

Sakari, Charli M., and 12 colleagues Infrared High-resolution Integrated Light Spectral Analyses of M31 Globular Clusters from APOGEE 2016ApJ...829..116S

Faisst, Andreas L. Revisiting the Lyman Continuum Escape Crisis: Predictions for $z \gtrsim 6$ from Local Galaxies 2016ApJ...829...99F

Shi, Xi-Heng, and 6 colleagues The Redshifted Hydrogen Balmer and Metastable He I Absorption Line System in Mini-FeLoBAL Quasar SDSS J112526.12+002901.3: A Parsec-scale Accretion Inflow? 2016ApJ...829...96S

Yang, Wuming Estimating the Radius of the Convective Core of Main-sequence Stars from Observed Oscillation Frequencies 2016ApJ...829...68Y

Massaro, F., and 15 colleagues The gamma-ray blazar quest: new optical spectra, state of art and future perspectives 2016Ap&SS.361..337M

Espinoza, N., and 21 colleagues HATS-25b through HATS-30b: A Half-dozen New Inflated Transiting Hot Jupiters from the HATSouth Survey 2016AJ....152..108E

MacDonald, Mariah G., and 12 colleagues A Dynamical Analysis of the Kepler-80 System of Five Transiting Planets 2016AJ....152..105M

Rabus, M., and 23 colleagues HATS-11b AND HATS-12b: Two Transiting Hot Jupiters Orbiting Subsolar Metallicity Stars Selected for the K2 Campaign 7 2016AJ....152...88R

Hartman, J. D., and 1 colleague VARTOOLS: A program for analyzing astronomical time-series data 2016A&C....17...1H

Almenara, J. M., and 3 colleagues Absolute densities, masses, and radii of the WASP-47 system determined dynamically 2016A&A...595L...5A

De Ridder, J., and 3 colleagues Asteroseismic versus Gaia distances: A first comparison 2016A&A...595L...3D

Einasto, Maret, and 8 colleagues Sloan Great Wall as a complex of

superclusters with collapsing cores 2016A&A...595A..70E

Jofré, P., and 10 colleagues Cannibals in the thick disk: the young α -rich stars as evolved blue stragglers 2016A&A...595A..60J

Eiroa, C., and 20 colleagues Exocomet signatures around the A-shell star ϕ ; Leonis? 2016A&A...594L...1E

Bergemann, Maria, and 29 colleagues The Gaia-ESO Survey: Hydrogen lines in red giants directly trace stellar mass 2016A&A...594A.120B

L´pez, S., and 25 colleagues XQ-100: A legacy survey of one hundred 3.5 $\lesssim z \lesssim 4.5$ quasars observed with VLT/X-shooter 2016A&A...594A..91L

Galicher, R., and 10 colleagues The International Deep Planet Survey. II. The frequency of directly imaged giant exoplanets with stellar mass 2016A&A...594A..63G

Walcher, C. J., and 9 colleagues Self-similarity in the chemical evolution of galaxies and the delay-time distribution of SNe Ia 2016A&A...594A..61W

Nemravov´, J. A., and 36 colleagues ξ ;Tauri: a unique laboratory to study the dynamic interaction in a compact hierarchical quadruple system 2016A&A...594A..55N

Bhandare, Asmita, and 2 colleagues Effects of inclined star-disk encounter on protoplanetary disk size 2016A&A...594A..53B

Zong, W., and 2 colleagues Signatures of nonlinear mode interactions in the pulsating hot B subdwarf star KIC 10139564 2016A&A...594A..46Z

Husemann, B., and 5 colleagues Large-scale outflows in luminous QSOs revisited. The impact of beam smearing on AGN feedback efficiencies 2016A&A...594A..44H

Hawkins, K., and 5 colleagues An accurate and self-consistent chemical abundance catalogue for the APOGEE/Kepler sample 2016A&A...594A..43H

Ioannidis, P., and 1 colleague Glimpses of stellar surfaces. II. Origins of the photometric modulations and timing variations of KOI-1452 2016A&A...594A..42I

Takey, A., and 3 colleagues The 3XMM/SDSS Stripe 82 Galaxy Cluster Survey. I. Cluster catalogue and discovery of two merging cluster candidates 2016A&A...594A..32T

Herzog, A., and 60 colleagues The radio spectral energy distribution of infrared-faint radio sources 2016A&A...593A.130H

Privitera, Giovanni, and 5 colleagues Star-planet interactions. II. Is planet engulfment the origin of fast rotating red giants? 2016A&A...593A.128P

Li, Zhen-Zhen, and 5 colleagues Strong optical and UV intermediate-width emission lines in the quasar SDSS J232444.80-094600.3: dust-free and intermediate-density gas at the skin of dusty torus? 2016RAA....16..146L

Hou, Wen, and 11 colleagues A catalog of early-type emission-line stars and $H\alpha$ line profiles from LAMOST DR2 2016RAA....16..138H

Ω ;nal Ta¸, Ω ;., and 6 colleagues Local Stellar Kinematics from

RAVE data—VII.
Metallicity Gradients from Red Clump Stars 2016PASA...33...440

Ellis, R. Report on the ESO/MPA/MPE/Excellence Cluster/LMU and TUM Munich
Joint Conference "'Discs in Galaxies'" 2016Msnggr.165...39E

Casey, A. R., and 50 colleagues The Gaia-ESO Survey: revisiting the Li-rich
giant problem 2016MNRAS.461.3336C

He&lstrook;miniak, K. G., and 7 colleagues HIDES spectroscopy of bright detached
eclipsing binaries from the Kepler field - I. Single-lined objects
2016MNRAS.461.2896H

Zhu, Fangzhou, and 4 colleagues Redshift weights for baryon acoustic
oscillations: application to mock galaxy catalogues 2016MNRAS.461.2867Z

Penzo, Camilla, and 5 colleagues Effects of coupled dark energy on the
Milky Way and its satellites 2016MNRAS.461.2490P

Pasetto, S., and 5 colleagues Spiral arm kinematics for Milky Way stellar
populations 2016MNRAS.461.2383P

de Souza, R. S., and 10 colleagues Is the cluster environment quenching the
Seyfert activity in elliptical and spiral galaxies? 2016MNRAS.461.2115D

Tremblay, P.-E., and 5 colleagues The field white dwarf mass distribution
2016MNRAS.461.2100T

Katkov, Ivan Yu., and 4 colleagues Stellar counter-rotation in lenticular
galaxy NGC 448 2016MNRAS.461.2068K

Compton, D. L., and 3 colleagues Binary star detectability in Kepler data
from phase modulation of different types of oscillations
2016MNRAS.461.1943C

Rozo, E., and 86 colleagues redMaGiC: selecting luminous red galaxies from
the DES Science Verification data 2016MNRAS.461.1431R

Fern´ndez-Trincado, J. G., and 7 colleagues Close encounters involving
RAVE
stars beyond the 47 Tucanae tidal radius 2016MNRAS.461.1404F

Montero-Dorta, Antonio D., and 15 colleagues The high-mass end of the red
sequence at $z \approx 0.55$ from SDSS-III/BOSS: completeness, bimodality and
luminosity function 2016MNRAS.461.1131M

Kislyakova, K. G., and 8 colleagues On the ultraviolet anomalies of the
WASP-12 and HD 189733 systems: Trojan satellites as a plasma source
2016MNRAS.461..988K

Pecaut, Mark J., and 1 colleagues The star formation history and
accretion-disc fraction among the K-type members of the Scorpius-Centaurus
OB association 2016MNRAS.461..794P

Miglio, A., and 20 colleagues Detection of solar-like oscillations in
relics of the Milky Way: asteroseismology of K giants in M4 using data from
the NASA K2 mission 2016MNRAS.461..760M

Nadathur, Seshadri Testing cosmology with a catalogue of voids in the BOSS
galaxy surveys 2016MNRAS.461..358N

Sif&ocute;n, Crist&ocute;bal, and 24 colleagues The Atacama Cosmology
Telescope:
dynamical masses for 44 SZ-selected galaxy clusters over 755 square degrees

2016MNRAS.461..248S

Edwards, L. O. V., and 4 colleagues Stellar populations of BCGs, close companions and intracluster light in Abell 85, Abell 2457 and IIZw108
2016MNRAS.461..230E

Schwarz, Dominik J., and 3 colleagues CMB anomalies after Planck
2016CQGra..33r4001S

White, T. R., and 33 colleagues Kepler Observations of the Asteroseismic Binary HD 176465 2016arXiv160909581W

Hippke, Michael, and 9 colleagues Sonneberg plate photometry for Boyajian's Star in two passbands 2016arXiv160909290H

Morrison, Christopher B., and 7 colleagues The-wiZZ: Clustering redshift estimation for everyone 2016arXiv160909085M

Rezaei Kh., S., and 3 colleagues Inferring the three-dimensional distribution of dust in the Galaxy with a non-parametric method: Preparing for Gaia 2016arXiv160908917R

Kipping, David M., and 23 colleagues No Conclusive Evidence for Transits of Proxima b in MOST photometry 2016arXiv160908718K

Wiegand, Alexander, and 1 colleague The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: higher-order correlations revealed by germ-grain Minkowski Functionals 2016arXiv160908613W

Arsioli, Bruno, and 1 colleague Searching for γ -ray signature in WHSP blazars: Fermi-LAT detection of 150 excess signal in the 0.3-500 GeV band 2016arXiv160908501A

Labadie-Bartz, Jonathan, and 13 colleagues Photometric Variability of the Be Star Population 2016arXiv160908449L

Mustill, Alexander J, and 2 colleagues The effects of external planets on inner systems: multiplicities, inclinations, and pathways to eccentric warm Jupiters 2016arXiv160908058M

Hekker, S., and 1 colleague Giant star seismology 2016arXiv160907487H

Perley, R. A., and 1 colleague An Accurate Flux Density Scale from 50 MHz to 50 GHz 2016arXiv160905940P

Lacki, Brian C. The Log Log Prior for the Frequency of Extraterrestrial Intelligences 2016arXiv160905931L

Zhang, Xudong, and 1 colleague The Covering Factor of Warm Dust in Weak Emission-Line Active Galactic Nuclei 2016arXiv160905691Z

Hippke, Michael, and 1 colleague A first view with GAIA on KIC 8462852 - distance estimates and a comparison to other F stars 2016arXiv160905492H

Kubiak, K., and 13 colleagues Orion revisited III. The Orion Belt population 2016arXiv160904948K

Mathur, Savita, and 16 colleagues Revised Stellar Properties of Kepler Targets for the Q1-17 (DR25) Transit Detection Run 2016arXiv160904128M

Valentini, M., and 31 colleagues RAVE stars in K2 - I. Improving RAVE red giants spectroscopy using asteroseismology from K2 Campaign 1
2016arXiv160903826V

Dumusque, X., and 23 colleagues Radial-Velocity Fitting Challenge. II. First results of the analysis of the data set 2016arXiv160903674D

Ho, Anna Y. Q., and 5 colleagues Masses and Ages for 230,000 LAMOST Giants, via Their Carbon and Nitrogen Abundances 2016arXiv160903195H

Casey, Andrew R., and 26 colleagues The RAVE-on catalog of stellar atmospheric parameters and chemical abundances for chemo-dynamic studies in the Gaia era 2016arXiv160902914C

Cai, Zheng, and 12 colleagues Mapping the Most Massive Overdensities (MAMMOTH) II -- Discovery of an Extremely Massive Overdensity BOSS1441 at $z=2.32$ 2016arXiv160902913C

Szabó, Gy. M., and 8 colleagues The heart of the swarm: K2 photometry and rotational characteristics of 56 Jovian Trojan asteroids 2016arXiv160902760S

Li, Yun, and 3 colleagues The long-term dynamical evolution of disc-fragmented multiple systems in the Solar Neighborhood 2016arXiv160900120L

Mickaelian, A. M. Multiwavelength astronomy and big data 2016ARep...60..857M

Bland-Hawthorn, Joss, and 1 colleague The Galaxy in Context: Structural, Kinematic, and Integrated Properties 2016ARA&A..54..529B

Girardi, L. Red Clump Stars 2016ARA&A..54...95G

Powalka, Mathieu, and 27 colleagues New Constraints on a Complex Relation between Globular Cluster Colors and Environment 2016ApJ...829L...5P

Konopacky, Quinn M., and 56 colleagues Discovery of a Substellar Companion to the Nearby Debris Disk Host HR 2562 2016ApJ...829L...4K

Wright, Jason T., and 1 colleague Families of Plausible Solutions to the Puzzle of Boyajian's Star 2016ApJ...829L...3W

Shporer, Avi, and 8 colleagues Radial Velocity Monitoring of Kepler Heartbeat Stars 2016ApJ...829...34S

White, J. A., and 7 colleagues ALMA Observations of HD 141569's Circumstellar Disk 2016ApJ...829....6W

Schmidt, Sarah J., and 10 colleagues ASASSN-16ae: A Powerful White-light Flare on an Early-L Dwarf 2016ApJ...828L..22S

Nicholl, M., and 27 colleagues Superluminous Supernova SN 2015bn in the Nebular Phase: Evidence for the Engine-powered Explosion of a Stripped Massive Star 2016ApJ...828L..18N

Veyette, Mark J., and 3 colleagues The Physical Mechanism Behind M Dwarf Metallicity Indicators and the Role of C and O Abundances 2016ApJ...828...95V

Hayes, Matthew, and 5 colleagues O vi Emission Imaging of a Galaxy with the Hubble Space Telescope: a Warm Gas Halo Surrounding the Intense Starburst SDSS J115630.63+500822.1 2016ApJ...828...49H

Liemman-Sifry, Jesse, and 5 colleagues Debris Disks in the Scorpius-Centaurus OB Association Resolved by ALMA 2016ApJ...828...25L

Masters, Daniel, and 2 colleagues A Tight Relation between N/O Ratio and

Galaxy Stellar Mass Can Explain the Evolution of Strong Emission Line Ratios with Redshift 2016ApJ...828...18M

Deller, A. T., and 11 colleagues Microarcsecond VLBI Pulsar Astrometry with PSRπ. I. Two Binary Millisecond Pulsars with White Dwarf Companions 2016ApJ...828....8D

Álvarez Crespo, N., and 12 colleagues Optical archival spectra of blazar candidates of uncertain type in the 3rd Fermi Large Area Telescope Catalog 2016Ap&SS.361..316A

Noels, A., and 2 colleagues Asteroseismology's new constraints on stellar models and Galactic Archaeology: Where are we now and where are we going ? 2016AN....337..982N

Kawata, D., and 1 colleagues Milky Way's thick and thin disk: Is there a distinct thick disk? 2016AN....337..976K

Valentini, M., and 8 colleagues The CoRoT-GES Collaboration: Improving red giants spectroscopic surface gravity and abundances with asteroseismology 2016AN....337..970V

Rauer, H., and 3 colleagues The PLATO Mission 2016AN....337..961R

Minchev, I., and 2 colleagues Milky Way chemo-dynamics in the era of Gaia 2016AN....337..944M

Binney, J., and 1 colleagues Chemodynamical modelling of the Milky Way 2016AN....337..939B

Anders, F., and 10 colleagues Galactic Archaeology with CoRoT and APOGEE: Creating mock observations from a chemodynamical model 2016AN....337..926A

Johnson, J. A., and 1 colleagues Galactic stellar populations with APOGEE and Kepler 2016AN....337..917J

Casagrande, L. Lessons learnt from the solar neighbourhood and the Kepler field 2016AN....337..889C

Robin, A. C., and 4 colleagues Clues on the Milky Way disc formation from population synthesis simulations 2016AN....337..884R

Just, A., and 1 colleagues Dynamical and chemical evolution of the thin disc 2016AN....337..880J

Girardi, L. Milky Way populations with TRILEGAL 2016AN....337..871G

Peterson, R. C. %Effective Characterizing high-latitude K dwarfs and giants with %ugriz Sloan SDSS colors and Kepler 2 light curves 2016AN....337..855P

Allende Prieto, C. Automated pipelines for spectroscopic analysis 2016AN....337..837A

Silva Aguirre, V., and 1 colleagues Asteroseismic age determination for dwarfs and giants 2016AN....337..823S

Handberg, R., and 4 colleagues Peakbagging in the open cluster NGC 6819: Opening a treasure chest or Pandora's box? 2016AN....337..799H

Brogaard, K., and 12 colleagues Testing asteroseismic scaling relations using eclipsing binaries in star clusters and the field 2016AN....337..793B

Mosser, B. Seismic indices - a deep look inside evolved stars 2016AN....337..783M

Davies, G. R., and 1 colleagues Asteroseismology of red giants: From analysing light curves to estimating ages 2016AN....337..774D

Villarroel, Beatriz, and 2 colleagues Our Sky Now and Then: Searches for Lost Stars and Impossible Effects as Probes of Advanced Extraterrestrial Civilizations 2016AJ....152...76V

Bannister, Michele T., and 38 colleagues The Outer Solar System Origins Survey. I. Design and First-quarter Discoveries 2016AJ....152...70B

Forgan, Duncan, and 1 colleagues #FoundThem-21st Century pre-search and post-detection seti protocols for social and digital media 2016AcAau.126..312F

Siqueira-Mello, C., and 11 colleagues Looking for imprints of the first stellar generations in metal-poor bulge field stars 2016A&A...593A..79S

Fremming, C., and 21 colleagues PTF12os and iPTF13bvn. Two stripped-envelope supernovae from low-mass progenitors in NGC 5806 2016A&A...593A..68F

Lopez-Corredoira, Martin A case against an X-shaped structure in the Milky Way young bulge 2016A&A...593A..66L

Bonavita, M., and 6 colleagues SPOTS: The Search for Planets Orbiting Two Stars. II. First constraints on the frequency of sub-stellar companions on wide circumbinary orbits 2016A&A...593A..38B

Fernandez-Alvar, E., and 5 colleagues Deep SDSS optical spectroscopy of distant halo stars. III. Chemical analysis of extremely metal-poor stars 2016A&A...593A..28F

Crass, Jonathan, and 10 colleagues The iLocater cryostat: design and thermal control strategy for precision radial velocity measurements 2016SPIE.9908E..73C

Veyette, Mark J., and 4 colleagues NEWS: the near-infrared Echelle for wideband spectroscopy 2016SPIE.9908E..6MV

Marconi, A., and 72 colleagues EELT-HIRES the high-resolution spectrograph for the E-ELT 2016SPIE.9908E..23M

Colless, Matthew Cosmological surveys with multi-object spectrographs 2016SPIE.9908E..1SC

Ellis, S. C., and 13 colleagues ULTIMATE: a deployable multiple integral field unit for Subaru 2016SPIE.9908E..1QE

Quirrenbach, A., and 156 colleagues CARMENES: an overview six months after first light 2016SPIE.9908E..12Q

Hamaus, Nico, and 6 colleagues Constraints on Cosmology and Gravity from the Dynamics of Voids 2016PhRvL.117i1302H

Alonso, David, and 3 colleagues Reconstructing cosmic growth with kinetic Sunyaev-Zel'dovich observations in the era of stage IV experiments 2016PhRvD..94d3522A

Cardona, Wilmar, and 3 colleagues Lensing convergence and the neutrino mass scale in galaxy redshift surveys 2016PhRvD..94d3007C

Bonnett, C., and 107 colleagues Redshift distributions of galaxies in the

Dark Energy Survey Science Verification shear catalogue and implications for weak lensing 2016PhRvD..94d2005B

Cook, Neil James M Dwarfs From The SDSS, 2MASS and WISE Surveys: Identification, Characterisation and Unresolved Ultracool Companionship 2016PhDT.....93C

Heber, U. Hot Subluminous Stars 2016PASP..128h2001H

Kokubo, Mitsuru The relationship between variable and polarized optical spectral components of luminous type 1 non-blazar quasars 2016PASJ...68...52K

Guggenberger, Elisabeth, and 3 colleagues Significantly improving stellar mass and radius estimates: a new reference function for the $\Delta\nu$ scaling relation 2016MNRAS.460.4277G

Gil-Marín, Hector, and 17 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: BAO measurement from the LOS-dependent power spectrum of DR12 BOSS galaxies 2016MNRAS.460.4210G

Gil-Marín, Hector, and 15 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: RSD measurement from the LOS-dependent power spectrum of DR12 BOSS galaxies 2016MNRAS.460.4188G

Pullen, Anthony R., and 3 colleagues Constraining gravity at the largest scales through CMB lensing and galaxy velocities 2016MNRAS.460.4098P

Yuan, Z. S., and 2 colleagues Radio luminosity function of brightest cluster galaxies 2016MNRAS.460.3669Y

Schwarz, R., and 3 colleagues New prospects for observing and cataloguing exoplanets in well-detached binaries 2016MNRAS.460.3598S

Maddox, Natasha, and 2 colleagues Optimizing commensality of radio continuum and spectral line observations in the era of the SKA 2016MNRAS.460.3419M

Delgado, A. J., and 33 colleagues The Gaia-ESO Survey: pre-main-sequence stars in the young open cluster NGC 3293 2016MNRAS.460.3305D

Wang, Jianling, and 5 colleagues Distance and extinction determination for APOGEE stars with Bayesian method 2016MNRAS.460.3179W

Zitlau, Roman, and 5 colleagues Stacking for machine learning redshifts applied to SDSS galaxies 2016MNRAS.460.3152Z

Marino, S., and 16 colleagues Exocometary gas in the HD 181327 debris ring 2016MNRAS.460.2933M

Delchambre, L. Redshift determination through weighted phase correlation: a linearithmic implementation 2016MNRAS.460.2811D

Schmidt, Sarah J., and 6 colleagues Examining the relationships between colour, T_{eff} , and $[M/H]$ for APOGEE K and M dwarfs 2016MNRAS.460.2611S

Banfield, J. K., and 17 colleagues Radio Galaxy Zoo: discovery of a poor cluster through a giant wide-angle tail radio galaxy 2016MNRAS.460.2376B

Cabrera-Ziri, I., and 6 colleagues Searching for GC-like abundance patterns in young massive clusters 2016MNRAS.460.1869C

Wong, O. Ivy, and 8 colleagues Determining the radio active galactic nuclei contribution to the radio-far-infrared correlation using the black hole Fundamental Plane relation 2016MNRAS.460.1588W

Pandey, Biswajit, and 1 colleagues Probing large scale homogeneity and periodicity in the LRG distribution using Shannon entropy 2016MNRAS.460.1519P

Saito, Shun, and 11 colleagues Connecting massive galaxies to dark matter haloes in BOSS - I. Is galaxy colour a stochastic process in high-mass haloes? 2016MNRAS.460.1457S

Beck, Rôbert, and 4 colleagues Photometric redshifts for the SDSS Data Release 12 2016MNRAS.460.1371B

Ramya, P., and 3 colleagues Chemical compositions and kinematics of the Hercules stream 2016MNRAS.460.1356R

Patej, Anna, and 1 colleagues Quantifying the colour-dependent stochasticity of large-scale structure 2016MNRAS.460.1310P

Rodríguez-Torres, Sergio A., and 23 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: modelling the clustering and halo occupation distribution of BOSS CMASS galaxies in the Final Data Release 2016MNRAS.460.1173R

Battaglia, N., and 41 colleagues Weak-lensing mass calibration of the Atacama Cosmology Telescope equatorial Sunyaev-Zeldovich cluster sample with the Canada-France-Hawaii telescope stripe 82 survey 2016JCAP...08..013B

Kim, Dongwon Two New Ultra-Faint Star Clusters in the Milky Way Halo 2016IAUS..317..314K

Dambis, Andrei K., and 3 colleagues Proper-Motion Based Kinematics Study of Galactic RR Lyraes 2016IAUS..317..290D

Johnston, Kathryn V. Origins of Stellar Halos 2016IAUS..317....1J

Salabert, David, and 13 colleagues The Solar-Stellar Connection: Magnetic Activity Of Seismic Solar Analogs 2016csss.confE..30S

Scôcola, C. G. Errores sistemâticos en la escala de las BAO 2016BAAA...58...42S

Domagal-Goldman, Shawn D., and 48 colleagues The Astrobiology Primer v2.0 2016AsBio..16..561D

Hoeneisen, B. Study of baryon acoustic oscillations with SDSS DR12 data and measurements of Ω_k and $\Omega_{\text{DE}}(a)$. Part II 2016arXiv160808486H

Howell, Steve B., and 4 colleagues Rapidly Rotating, X-ray Bright Stars in the Kepler Field 2016arXiv160807828H

Ryde, N., and 6 colleagues Detailed abundance analysis of a metal-poor giant in the Galactic Center 2016arXiv160807562R

Barnes, Rory, and 14 colleagues The Habitability of Proxima Centauri b I: Evolutionary Scenarios 2016arXiv160806919B

Anders, F., and 23 colleagues Red giants observed by CoRoT and APOGEE: The evolution of the Milky Way's radial metallicity gradient 2016arXiv160804951A

Faedi, F., and 40 colleagues WASP-86b and WASP-102b: super-dense versus bloated planets 2016arXiv160804225F

Ma, Xiangcheng, and 7 colleagues The Structure and Dynamical Evolution of the Stellar Disk of a Simulated Milky Way-Mass Galaxy 2016arXiv160804133M

Svanda, M., and 1 colleagues Flares on A-type stars: Evidence for heating of solar corona by nanoflares? 2016arXiv160803494S

Hosseinzadeh, Griffin, and 36 colleagues Type Ibn Supernovae Show Photometric Homogeneity and Evidence for Two Spectral Subclasses 2016arXiv160801998H

Shappee, B. J., and 3 colleagues Whimper of a Bang: Documenting the Final Days of the Nearby Type Ia Supernova 2011fe 2016arXiv160801155S

Garai, Z., and 8 colleagues Affordable echelle spectroscopy of the eccentric HAT-P-2, WASP-14 and XO-3 planetary systems with a sub-meter-class telescope 2016arXiv160800745G

Brewer, John M., and 3 colleagues Spectral Properties of Cool Stars: Extended Abundance Analysis of 1,617 Planet-search Stars 2016ApJS..225...32B

Sohn, Jubee, and 4 colleagues Catalogs of Compact Groups of Galaxies from the Enhanced SDSS DR12 2016ApJS..225...23S

Elyajouri, M., and 3 colleagues A Catalog of 1.5273 um Diffuse Interstellar Bands Based on APOGEE Hot Telluric Calibrators 2016ApJS..225...19E

Berg, Danielle A., and 4 colleagues Carbon and Oxygen Abundances in Low Metallicity Dwarf Galaxies 2016ApJ...827..126B

Shajib, Anowar J., and 1 colleagues Measurement of the Integrated Sachs-Wolfe Effect Using the AllWISE Data Release 2016ApJ...827..116S

Song, Hyunmi, and 3 colleagues Quasars as a Tracer of Large-scale Structures in the Distant Universe 2016ApJ...827..104S

Troja, E., and 19 colleagues An Achromatic Break in the Afterglow of the Short GRB 140903A: Evidence for a Narrow Jet 2016ApJ...827..102T

Kostov, Veselin B., and 30 colleagues Kepler-1647b: The Largest and Longest-period Kepler Transiting Circumbinary Planet 2016ApJ...827...86K

Di Stefano, R., and 1 colleagues Globular Clusters as Cradles of Life and Advanced Civilizations 2016ApJ...827...54D

Mathur, S., and 7 colleagues Probing the Deep End of the Milky Way with Kepler: Asteroseismic Analysis of 854 Faint Red Giants Misclassified as Cool Dwarfs 2016ApJ...827...50M

Burgasser, Adam J., and 4 colleagues The Orbit of the L Dwarf + T Dwarf Spectral Binary SDSS J080531.84+481233.0 2016ApJ...827...25B

Rix, Hans-Walter, and 3 colleagues Constructing Polynomial Spectral Models for Stars 2016ApJ...826L..25R

Tanaka, Masayuki, and 13 colleagues A Spectroscopically Confirmed Double Source Plane Lens System in the Hyper Suprime-Cam Subaru Strategic Program 2016ApJ...826L..19T

Hagen, Lea M. Z., and 8 colleagues On the Classification of UGC 1382 as a

Giant Low Surface Brightness Galaxy 2016ApJ...826..210H

Ruan, John J., and 15 colleagues Toward an Understanding of Changing-look Quasars: An Archival Spectroscopic Search in SDSS 2016ApJ...826..188R

Gáspár, András, and 2 colleagues The Correlation between Metallicity and Debris Disk Mass 2016ApJ...826..171G

Schlawin, E., and 4 colleagues Reduced Activity and Large Particles from the Disintegrating Planet Candidate KIC 12557548b 2016ApJ...826..156S

Hong, Tao, and 2 colleagues A Detection of Baryon Acoustic Oscillations from the Distribution of Galaxy Clusters 2016ApJ...826..154H

Singh, Veeresh, and 4 colleagues J1216+0709: A Radio Galaxy with Three Episodes of AGN Jet Activity 2016ApJ...826..132S

Moór, A., and 7 colleagues New Debris Disks in Nearby Young Moving Groups 2016ApJ...826..123M

Moura-Santos, E., and 4 colleagues A Bayesian Estimate of the CMB-Large-scale Structure Cross-correlation 2016ApJ...826..121M

Baran, Nikola, and 7 colleagues Star-forming galaxies versus low- and high-excitation radio AGN in the VLA-COSMOS 3GHz Large Project 2016agnw.confE..15B

Kurtz, Don, and 2 colleagues Starquakes spring stellar surprises 2016A&G....57d4.37K

Aguado, D. S., and 7 colleagues Follow-up observations of extremely metal-poor stars identified from SDSS 2016A&A...593A..10A

Dumusque, X. Radial velocity fitting challenge. I. Simulating the data set including realistic stellar radial-velocity signals 2016A&A...593A...5D

Schneider, Peter Generalized shear-ratio tests: A new relation between cosmological distances, and a diagnostic for a redshift-dependent multiplicative bias in shear measurements 2016A&A...592L...6S

Wang, L., and 14 colleagues The faint end of the 250 μ m luminosity function at $z \lesssim 0.5$ 2016A&A...592L...5W

Dobos, Vera, and 3 colleagues Possibility for albedo estimation of exomoons: Why should we care about M dwarfs? 2016A&A...592A.139D

Comparat, J., and 87 colleagues SDSS-IV eBOSS emission-line galaxy pilot survey 2016A&A...592A.121C

Chantereau, W., and 2 colleagues Evolution of long-lived globular cluster stars. III. Effect of the initial helium spread on the position of stars in a synthetic Hertzsprung-Russell diagram 2016A&A...592A.111C

Gobat, R., and 1 colleagues Evolution of galaxy habitability 2016A&A...592A..96G

Frank, Bradley S., and 4 colleagues A rare example of low surface-brightness radio lobes in a gas-rich early-type galaxy: the story of NGC 3998 2016A&A...592A..94F

Taddia, F., and 11 colleagues iPTF15dtg: a double-peaked Type Ic supernova from a massive progenitor 2016A&A...592A..89T

Adibekyan, V., and 11 colleagues Abundance trend with condensation temperature for stars with different Galactic birth places 2016A&A...592A..87A

Verhoeve, Peter, and 11 colleagues Optical and dark characterization of the PLATO CCD at ESA 2016SPIE.9915E..0ZV

Prod'homme, Thibaut, and 11 colleagues Technology validation of the PLATO CCD at ESA 2016SPIE.9915E..0UP

Flagey, Nicolas, and 4 colleagues Spectral calibration for the Maunakea Spectroscopic Explorer: challenges and solutions 2016SPIE.9910E..1FF

Gullieuszik, Marco, and 32 colleagues Thermal effects on PLATO point spread function 2016SPIE.9904E..31G

Magrin, Demetrio, and 31 colleagues Radiation, Thermal Gradient and Weight: a threefold dilemma for PLATO 2016SPIE.9904E..30M

Magrin, Demetrio, and 31 colleagues Manufacturing and alignment tolerance analysis through Montecarlo approach for PLATO 2016SPIE.9904E..2ZM

Focardi, M., and 12 colleagues The instrument control unit of the ESA-PLATO 2.0 mission 2016SPIE.9904E..2YF

Ragazzoni, Roberto, and 41 colleagues PLATO: a multiple telescope spacecraft for exo-planets hunting 2016SPIE.9904E..28R

Sz´z, D´nes, and 5 colleagues North error estimation based on solar elevation errors in the third step of sky-polarimetric Viking navigation 2016RSPSA.47260171S

Placek, Ben, and 2 colleagues Combining Photometry from Kepler and TESS to Improve Short-period Exoplanet Characterization 2016PASP..128g4503P

Ciceri, S., and 30 colleagues HATS-15b and HATS-16b: Two Massive Planets Transiting Old G Dwarf Stars 2016PASP..128g4401C

Grand, Robert J. J., and 8 colleagues Spiral-induced velocity and metallicity patterns in a cosmological zoom simulation of a Milky Way-sized galaxy 2016MNRAS.460L..94G

MacLean, B. T., and 6 colleagues An extreme paucity of second population AGB stars in the 'normal' globular cluster M4 2016MNRAS.460L..69M

Stonkutė, E., and 28 colleagues The Gaia-ESO Survey: the selection function of the Milky Way field stars 2016MNRAS.460.1131S

Howes, Louise M., and 16 colleagues The EMBLA survey - metal-poor stars in the Galactic bulge 2016MNRAS.460..884H

Rahman, Mubdi, and 6 colleagues Exploring the SDSS photometric galaxies with clustering redshifts 2016MNRAS.460..163R

Roderick, T. A., and 3 colleagues Structural analysis of the Sextans dwarf spheroidal galaxy 2016MNRAS.460...30R

Kilkenny, D., and 7 colleagues The Edinburgh-Cape Blue Object Survey - V. The end: Partial Zones 4-6; Galactic latitudes $-50^\circ < b < -90^\circ$; 2016MNRAS.459.4343K

Kuhn, Rudolf B., and 33 colleagues KELT-10b: the first transiting exoplanet from the KELT-South survey - a hot sub-Jupiter transiting a $V = 10.7$ early

G-star 2016MNRAS.459.4281K

Liang, Yu, and 4 colleagues Measuring baryon acoustic oscillations from the clustering of voids 2016MNRAS.459.4020L

Aumer, Michael, and 2 colleagues The quiescent phase of galactic disc growth 2016MNRAS.459.3326A

Zakamska, Nadia L., and 9 colleagues Discovery of extreme [O III] λ 5007 & Aring; outflows in high-redshift red quasars 2016MNRAS.459.3144Z

De Vicente, J., and 2 colleagues DNF - Galaxy photometric redshift by Directional Neighbourhood Fitting 2016MNRAS.459.3078D

Kniazev, A. Y., and 2 colleagues MN48: a new Galactic bona fide luminous blue variable revealed by Spitzer and SALT 2016MNRAS.459.3068K

McNeill, A., and 9 colleagues Brightness variation distributions among main belt asteroids from sparse light-curve sampling with Pan-STARRS 1 2016MNRAS.459.2964M

Costa-Duarte, M. V., and 4 colleagues Dissecting galaxy triplets in the Sloan Digital Sky Survey Data Release 10 - I. Stellar populations and emission line analysis 2016MNRAS.459.2539C

Coppejans, Rocco, and 10 colleagues What are the megahertz peaked-spectrum sources? 2016MNRAS.459.2455C

Durrer, Ruth, and 1 colleagues Vector perturbations of galaxy number counts 2016JCAP...07..037D

Southworth, John, and 1 colleagues Orbital Obliquities of Transiting Planets From Starspot Occultations 2016csss.confE.114S

Berlitz-Arthaud, Paul Long Period Variables: questioning the pulsation paradigm 2016arXiv160800232B

Patwary, Md. Mostofa Ali, and 10 colleagues PANDA: Extreme Scale Parallel K-Nearest Neighbor on Distributed Architectures 2016arXiv160708220P

Lam, K. W. F., and 40 colleagues From dense hot Jupiter to low-density Neptune: The discovery of WASP-127b, WASP-136b and WASP-138b 2016arXiv160707859L

Montero-Dorta, Antonio D., and 2 colleagues A Direct Measurement of the High-Mass End of the Velocity Dispersion Function at $z \sim 0.55$ from SDSS-III/BOSS 2016arXiv160706820M

Luo, Wentao, and 13 colleagues Galaxy-Galaxy Weak Lensing Measurements from SDSS: I. Image Processing and Lensing signals 2016arXiv160705406L

Friesen, Brian, and 18 colleagues Optical and ultraviolet spectroscopic analysis of SN 2011fe at late times 2016arXiv160704784F

Tinker, Jeremy L., and 11 colleagues The Correlation Between Halo Mass and Stellar Mass for the Most Massive Galaxies in the Universe 2016arXiv160704678T

Ntelis, Pierros The Homogeneity Scale of the universe 2016arXiv160703418N

Alam, Shadab, and 71 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: cosmological analysis of the DR12 galaxy sample 2016arXiv160703155A

Wang, Yuting, and 22 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: tomographic BAO analysis of DR12 combined sample in configuration space 2016arXiv160703154W

Pellejero-Ibanez, Marcos, and 30 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: double-probe measurements from BOSS galaxy clustering & Planck data -- towards an analysis without informative priors 2016arXiv160703152P

Chuang, Chia-Hsun, and 29 colleagues The Clustering of Galaxies in the Completed SDSS-III Baryon Oscillation Spectroscopic Survey: single-probe measurements from DR12 galaxy clustering -- towards an accurate model 2016arXiv160703151C

Satpathy, Siddharth, and 18 colleagues BOSS DR12 combined galaxy sample: The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: On the measurement of growth rate using galaxy correlation functions 2016arXiv160703148S

Salazar-Albornoz, Salvador, and 19 colleagues The clustering of galaxies in the completed SDSS-III Baryon Oscillation Spectroscopic Survey: Angular clustering tomography and its cosmological implications 2016arXiv160703144S

Hoeneisen, B. Study of baryon acoustic oscillations with SDSS DR12 data and measurement of $\Omega_{\text{DE}}(a)$ 2016arXiv160702424H

Pepper, Joshua, and 36 colleagues KELT-11b: A Highly Inflated Sub-Saturn Exoplanet Transiting the V=8 Subgiant HD 93396 2016arXiv160701755P

Jarrett, T. H., and 19 colleagues Galaxy and Mass Assembly (GAMA): Exploring the WISE Cosmic Web in G12 2016arXiv160701190J

Scalisi, Marco Inflation, Universality and Attractors 2016arXiv160701030S

Bento, Joao, and 23 colleagues HATS-22b, HATS-23b and HATS-24b: Three new transiting Super-Jupiters from the HATSouth Project 2016arXiv160700688B

Roderick, T. A., and 3 colleagues Extended stellar substructure surrounding the Bootes I dwarf spheroidal galaxy 2016arXiv160700447R

Bhatti, W., and 26 colleagues HATS-19b, HATS-20b, HATS-21b: Three Transiting Hot-Saturns Discovered by the HATSouth Survey 2016arXiv160700322B

Verkhodanov, O. V., and 4 colleagues Sources of the RCR catalog with normal and flat spectra according to data from the Planck microwave survey 2016ARep...60..630V

Cotten, Tara H., and 1 colleagues A Comprehensive Census of Nearby Infrared Excess Stars 2016ApJS..225...15C

Holczer, Tomer, and 8 colleagues Transit Timing Observations from Kepler. IX. Catalog of the Full Long-cadence Data Set 2016ApJS..225....9H

Kim, Keunho, and 5 colleagues The Demographics of Galactic Bulges in the SDSS Database 2016ApJS..225....6K

Bilicki, Maciej, and 16 colleagues WISE & SuperCOSMOS Photometric Redshift Catalog: 20 Million Galaxies over $3/\pi$ Steradians 2016ApJS..225....5B

Metcalfe, Travis S., and 2 colleagues Stellar Evidence That the Solar Dynamo May Be in Transition 2016ApJ...826L...2M

Lapenna, E., and 9 colleagues Lost and Found: Evidence of Second-generation Stars Along the Asymptotic Giant Branch of the Globular Cluster NGC 6752 2016ApJ...826L...1L

Piro, Anthony L., and 1 colleagues Exploring the Potential Diversity of Early Type Ia Supernova Light Curves 2016ApJ...826...96P

Ting, Yuan-Sen, and 2 colleagues Accelerated Fitting of Stellar Spectra 2016ApJ...826...83T

Gu, Liyi, and 9 colleagues Galaxy Infall by Interacting with Its Environment: A Comprehensive Study of 340 Galaxy Clusters 2016ApJ...826...72G

Iglesias-Paacute;ramo, J., and 25 colleagues Aperture Effects on the Oxygen Abundance Determinations from CALIFA Data 2016ApJ...826...71I

Heinis, S., and 8 colleagues The Host Galaxy Properties of Variability Selected AGN in the Pan-STARRS1 Medium Deep Survey 2016ApJ...826...62H

Nicholl, M., and 44 colleagues SN 2015BN: A Detailed Multi-wavelength View of a Nearby Superluminous Supernova 2016ApJ...826...39N

Guo, Rui, and 4 colleagues The Role of Major Gas-rich Mergers on the Evolution of Galaxies from the Blue Cloud to the Red Sequence 2016ApJ...826...30G

Lanz, Lauranne, and 3 colleagues Star Formation Suppression Due to Jet Feedback in Radio Galaxies with Shocked Warm Molecular Gas 2016ApJ...826...29L

Schuetz, Marlin, and 3 colleagues Optical SETI Observations of the Anomalous Star KIC 8462852 2016ApJ...825L...5S

Harp, G. R., and 5 colleagues Radio SETI Observations of the Anomalous Star KIC 8462852 2016ApJ...825..155H

Ruan, John J., and 29 colleagues The Time-Domain Spectroscopic Survey: Understanding the Optically Variable Sky with SEQUELS in SDSS-III 2016ApJ...825..137R

Ferreras, Ignacio, and 1 colleagues Testing the Wavelength Dependence of Cosmological Redshift Down to $\Delta z \lesssim 10^{-6}$ 2016ApJ...825..115F

Hippke, Michael, and 4 colleagues A Statistical Analysis of the Accuracy of the Digitized Magnitudes of Photometric Plates on the Timescale of Decades with an Application to the Century-long Light Curve of KIC 8462852 2016ApJ...825...73H

Mirabal, N., and 6 colleagues 3FGL Demographics Outside the Galactic Plane using Supervised Machine Learning: Pulsar and Dark Matter Subhalo Interpretations 2016ApJ...825...69M

Humphreys, Roberta M., and 3 colleagues On the Social Traits of Luminous Blue Variables 2016ApJ...825...64H

Baranec, Christoph, and 7 colleagues Robo-AO Kepler Planetary Candidate Survey. II. Adaptive Optics Imaging of 969 Kepler Exoplanet Candidate Host Stars 2016AJ....152...18B

Ness, Melissa, and 1 colleagues The X-shaped Bulge of the Milky Way Revealed by WISE 2016AJ....152...14N

Heintz, K. E., and 10 colleagues Serendipitous Discovery of a Projected Pair of QSOs Separated by 4.5 arcsec on the Sky 2016AJ....152...13H

Mahmoud, E., and 2 colleagues Spectral clustering for optical confirmation and redshift estimation of X-ray selected galaxy cluster candidates in the SDSS Stripe 82 2016A&C....16..174M

Hoyle, B. Measuring photometric redshifts using galaxy images and Deep Neural Networks 2016A&C....16...34H

Mosenkov, Aleksandr V., and 13 colleagues HERschel Observations of Edge-on Spirals (HEROES). III. Dust energy balance study of IC 2531 2016A&A...592A..71M

Wang, Y., and 6 colleagues Sodium abundances of AGB and RGB stars in Galactic globular clusters. I. Analysis and results of NGC 2808 2016A&A...592A..66W

Davidsson, B. J. R., and 47 colleagues The primordial nucleus of comet 67P/Churyumov-Gerasimenko 2016A&A...592A..63D

Argudo-Fernández, M., and 5 colleagues The effect of local and large-scale environments on nuclear activity and star formation 2016A&A...592A..30A

Matrozi, E., and 1 colleague Radiative levitation in carbon-enhanced metal-poor stars with s-process enrichment 2016A&A...592A..29M

Kurcz, A., and 5 colleagues Towards automatic classification of all WISE sources 2016A&A...592A..25K

Reese, D. R., and 17 colleagues SpaceInn hare-and-hounds exercise: Estimation of stellar properties using space-based asteroseismic data 2016A&A...592A..14R

Diaz, R. F., and 27 colleagues The SOPHIE search for northern extrasolar planets. XI. Three new companions and an orbit update: Giant planets in the habitable zone 2016A&A...591A.146D

Fischer, Debra A., and 55 colleagues State of the Field: Extreme Precision Radial Velocities 2016PASP..128f6001F

Di Matteo, P. The Disc Origin of the Milky Way Bulge 2016PASA...33...27D

Babusiaux, Carine Correlations between Kinematics and Metallicity in the Galactic Bulge: A Review 2016PASA...33...26B

Zoccali, Manuela, and 1 colleague The 3D Structure of the Galactic Bulge 2016PASA...33...25Z

Nataf, David M. The Controversial Star-Formation History and Helium Enrichment of the Milky Way Bulge 2016PASA...33...23N

Ness, M., and 1 colleague The Metallicity Distribution of the Milky Way Bulge 2016PASA...33...22N

Kurcz, Agnieszka, and 5 colleagues Automatised classification of WISE sources: first results, future prospects 2016pas..conf..171K

García-Berro, Enrique, and 1 colleague The white dwarf luminosity function 2016NewAR..72....1G

Devour, Brian M., and 1 colleague Global dust attenuation in disc

galaxies: strong variation with specific star formation and stellar mass, and the importance of sample selection 2016MNRAS.459.2054D

Barber, Sara D., and 3 colleagues Remnant planetary systems around bright white dwarfs 2016MNRAS.459.1415B

Kipping, David M., and 1 colleagues A cloaking device for transiting planets 2016MNRAS.459.1233K

Murphy, Simon J., and 6 colleagues Near-uniform internal rotation of the main-sequence γ Doradus pulsator KIC 7661054 2016MNRAS.459.1201M

Tomasella, L., and 20 colleagues Optical and near-infrared observations of SN 2014ck: an outlier among the Type Iax supernovae 2016MNRAS.459.1018T

Turner, Jake D., and 41 colleagues Ground-based near-UV observations of 15 transiting exoplanets: constraints on their atmospheres and no evidence for asymmetrical transits 2016MNRAS.459..789T

Yong, David, and 12 colleagues GRACES observations of young $[\alpha/\text{Fe}]$ -rich stars 2016MNRAS.459..487Y

Strader, M. J., and 10 colleagues Search for optical pulsations in PSR J0337+1715 2016MNRAS.459..427S

Hoyle, Ben, and 4 colleagues Tuning target selection algorithms to improve galaxy redshift estimates 2016MNRAS.458.4498H

Massari, Davide, and 5 colleagues Multiple stellar populations in the globular cluster M3 (NGC 5272): a Strömgren perspective 2016MNRAS.458.4162M

Delrez, L., and 21 colleagues WASP-121 b: a hot Jupiter close to tidal disruption transiting an active F star 2016MNRAS.458.4025D

Rebassa-Mansergas, A., and 7 colleagues The SDSS spectroscopic catalogue of white dwarf-main-sequence binaries: new identifications from DR 9-12 2016MNRAS.458.3808R

Smolec, R., and 1 colleagues Non-radial pulsation in first overtone Cepheids of the Small Magellanic Cloud 2016MNRAS.458.3561S

Osato, Ken, and 4 colleagues Cosmological constraint on the light gravitino mass from CMB lensing and cosmic shear 2016JCAP...06..004O

Vida, K., and 7 colleagues Spotted stars as Cepheid impostors observed with K2 2016IBVS.6173....1V

Erastova, L. K., and 1 colleagues Revised and Updated Catalogue of the Second Byurakan Sky Survey 2016ASPC..505..242E

Mickaelian, A. M. Astronomical Surveys, Catalogs, Databases, and Archives 2016ASPC..505..203M

Abrahamyan, H. V., and 1 colleagues Properties of IRAS PSC/FSC Galaxies 2016ASPC..505..193A

Paronyan, G. M., and 2 colleagues Multiwavelength Studies of X-ray Selected AGN 2016ASPC..505..189P

Mickaelian, A. M. Multiwavelength Search and Studies of Active Galaxies 2016ASPC..505..117M

Wambsganss, J. Discovering Extrasolar Planets with Microlensing Surveys 2016ASPC..505...35W

Mickaelian, A. M. Fifty Years of the Markarian Survey 2016ASPC..505....3M

de Rham, Claudia, and 3 colleagues Graviton Mass Bounds 2016arXiv160608462D

Kovetz, Ely D., and 2 colleagues Cosmological Constraints with Clustering-Based Redshifts 2016arXiv160607434K

Sugiyama, Naonori S., and 2 colleagues Will Kinematic Sunyaev-Zel'dovich Measurements Enhance the Science Return from Galaxy Redshift Surveys? 2016arXiv160606367S

Bayliss, D., and 36 colleagues EPIC201702477b: A Long Period Transiting Brown Dwarf from K2 2016arXiv160604047B

Vinokurov, A., and 2 colleagues Optical counterparts of two ultraluminous X-ray sources NGC4559 X-10 and NGC4395 ULX-1 2016arXiv160603024V

Alatalo, Katherine, and 8 colleagues Shocked Poststarburst Galaxy Survey. I. Candidate Post-starburst Galaxies with Emission Line Ratios Consistent with Shocks 2016ApJS..224...38A

Gao, Qing, and 4 colleagues White-light Flares on Close Binaries Observed with Kepler 2016ApJS..224...37G

Prakash, Abhishek, and 28 colleagues The SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: Luminous Red Galaxy Target Selection 2016ApJS..224...34P

Papovich, C., and 29 colleagues The Spitzer-HETDEX Exploratory Large-area Survey 2016ApJS..224...28P

Xue, Mengyao, and 5 colleagues A Precise Determination of the Mid-infrared Interstellar Extinction Law Based on the APOGEE Spectroscopic Survey 2016ApJS..224...23X

Zhao, Yinghe, and 2 colleagues Properties of Interstellar Medium In Infrared-bright QSOs Probed by [O ii] 63 um and [C ii] 158 um Emission Lines 2016ApJ...824..146Z

Raouf, Mojtaba, and 2 colleagues Evolution of Galaxy Groups in the Illustris Simulation 2016ApJ...824..140R

De Rosa, Robert J., and 35 colleagues Spectroscopic Characterization of HD 95086 b with the Gemini Planet Imager 2016ApJ...824..121D

Odekon, Mary Crone, and 8 colleagues The HI Content of Galaxies in Groups and Clusters as Measured by ALFALFA 2016ApJ...824..1100

Youngblood, Allison, and 11 colleagues The MUSCLES Treasury Survey. II. Intrinsic $L_{\text{Ly}\alpha}$ and Extreme Ultraviolet Spectra of K and M Dwarfs with Exoplanets* 2016ApJ...824..101Y

Overbeek, Jamie C., and 2 colleagues New Neutron-capture Measurements in 23 Open Clusters. I. The r-Process 2016ApJ...824...750

Mucciarelli, Alessio, and 8 colleagues NGC 6362: The Least Massive Globular Cluster with Chemically Distinct Multiple Populations 2016ApJ...824...73M

Patej, Anna, and 1 colleagues Density Jumps Near the Virial Radius of Galaxy Clusters 2016ApJ...824...69P

Pacifici, Camilla, and 4 colleagues Timing the Evolution of Quiescent and Star-forming Local Galaxies 2016ApJ...824...45P

Glidden, Ana, and 3 colleagues A Model for Type 2 Coronal Line Forest (CLiF) AGNs 2016ApJ...824...34G

Boberg, Owen M., and 2 colleagues Chemical Abundances in NGC 5024 (M53): A Mostly First Generation Globular Cluster 2016ApJ...824....5B

Neilson, Hilding R., and 4 colleagues The Secret Lives of Cepheids: Evolution, Mass-Loss, and Ultraviolet Emission of the Long-period Classical Cepheid 2016ApJ...824....1N

Ai, Yanli, and 5 colleagues Exploratory Chandra Observation of the Ultraluminous Quasar SDSS J010013.02+280225.8 at Redshift 6.30 2016ApJ...823L..37A

Kashino, D., and 3 colleagues Hide-and-peek with the Fundamental Metallicity Relation 2016ApJ...823L..24K

Cao, Yi, and 16 colleagues Absence of Fast-moving Iron in an Intermediate Type Ia Supernova between Normal and Super-Chandrasekhar 2016ApJ...823..147C

Matsuo, Taro, and 4 colleagues A New Concept for Spectrophotometry of Exoplanets with Space-borne Telescopes 2016ApJ...823..139M

Wong, Ian, and 17 colleagues 3.6 and 4.5 μm Spitzer Phase Curves of the Highly Irradiated Hot Jupiters WASP-19b and HAT-P-7b 2016ApJ...823..122W

Morrison, Sarah J., and 1 colleagues Orbital Stability of Multi-planet Systems: Behavior at High Masses 2016ApJ...823..118M

Ness, M., and 5 colleagues Spectroscopic Determination of Masses (and Implied Ages) for Red Giants 2016ApJ...823..114N

Flender, Samuel, and 5 colleagues Simulations of the Pairwise Kinematic Sunyaev-Zel'dovich Signal 2016ApJ...823...98F

Schwarz, Kamber R., and 7 colleagues The Radial Distribution of H₂ and CO in TW Hya as Revealed by Resolved ALMA Observations of CO Isotopologues 2016ApJ...823...91S

MacGregor, Meredith A., and 8 colleagues Constraints on Planetesimal Collision Models in Debris Disks 2016ApJ...823...79M

Lee, Hye-Ran, and 3 colleagues Small-scale Conformity of the Virgo Cluster Galaxies 2016ApJ...823...73L

Lopez-Corredoira, M., and 1 colleagues Radial Motions in Disk Stars: Ellipticity or Secular Flows? 2016AJ...151..165L

Schmitt, Joseph R., and 24 colleagues Planet Hunters. X. Searching for Nearby Neighbors of 75 Planet and Eclipsing Binary Candidates from the K2 Kepler extended mission 2016AJ...151..159S

Harris, David W., and 14 colleagues The Composite Spectrum of BOSS Quasars Selected for Studies of the Ly α Forest 2016AJ...151..155H

Nilo Castell \acute{e} n, Jos \acute{e} Luis, and 12 colleagues Low X-Ray Luminosity Galaxy Clusters: Main Goals, Sample Selection, Photometric and Spectroscopic Observations 2016AJ...151..151N

Matson, Rachel A., and 3 colleagues Fundamental Parameters of Kepler

Eclipsing Binaries. I. KIC 5738698 2016AJ....151..139M

Rodriguez, Joseph E., and 30 colleagues KELT-14b and KELT-15b: An Independent Discovery of WASP-122b and a New Hot Jupiter 2016AJ....151..138R

Whitmore, Bradley C., and 11 colleagues Version 1 of the Hubble Source Catalog 2016AJ....151..134W

Fotopoulou, S., and 38 colleagues The XXL Survey. VI. The 1000 brightest X-ray point sources 2016A&A...592A...5F

Muriel, H. The fraction of BL Lacertae objects in groups of galaxies 2016A&A...591L...4M

Salinas, Vachail N., and 12 colleagues First detection of gas-phase ammonia in a planet-forming disk. NH_3 , N_2H^+ , and H_2O in the disk around TW Hydrae 2016A&A...591A.122S

Maxted, P. F. L. ellc: A fast, flexible light curve model for detached eclipsing binary stars and transiting exoplanets 2016A&A...591A.111M

Olofsson, J., and 32 colleagues Azimuthal asymmetries in the debris disk around HD 61005. A massive collision of planetesimals? 2016A&A...591A.108O

Rez Hernandez, F., and 4 colleagues Asteroseismology of 19 low-luminosity red giant stars from Kepler 2016A&A...591A..99P

Pourbaix, D., and 7 colleagues Robust detection of CID double stars in SDSS 2016A&A...591A..96P

Alibert, Y. Constraining the volatile fraction of planets from transit observations 2016A&A...591A..79A

Heller, René, and 4 colleagues Predictable patterns in planetary transit timing variations and transit duration variations due to exomoons 2016A&A...591A..67H

Maxted, P. F. L., and 19 colleagues Five transiting hot Jupiters discovered using WASP-South, Euler, and TRAPPIST: WASP-119 b, WASP-124 b, WASP-126 b, WASP-129 b, and WASP-133 b 2016A&A...591A..55M

Consolandi, Guido, and 4 colleagues Robust automatic photometry of local galaxies from SDSS. Dissecting the color magnitude relation with color profiles 2016A&A...591A..38C

Jacobson, H. R., and 43 colleagues The Gaia-ESO Survey: Probes of the inner disk abundance gradient 2016A&A...591A..37J

Soumagnac, M. T., and 7 colleagues Large-Scale Distribution of Total Mass versus Luminous Matter from Baryon Acoustic Oscillations: First Search in the Sloan Digital Sky Survey III Baryon Oscillation Spectroscopic Survey Data Release 10 2016PhRvL.116t1302S

Achitouv, Ixandra, and 3 colleagues Imprint of $f(R)$ gravity on nonlinear structure formation 2016PhRvD..93j3522A

Porto, Rafael A. The effective field theorist's approach to gravitational dynamics 2016PhR...633....1P

Thompson, M. A., and 11 colleagues Constraints on the circumstellar dust around KIC 8462852 2016MNRAS.458L..39T

Berthier, J., and 4 colleagues Prediction of transits of Solar system objects in Kepler/K2 images: an extension of the Virtual Observatory service SkyBoT 2016MNRAS.458.3394B

Casamiquela, L., and 11 colleagues The OCCASO survey: presentation and radial velocities of 12 Milky Way open clusters 2016MNRAS.458.3150C

Comparat, J., and 15 colleagues The Low Redshift survey at Calar Alto (LoRCA) 2016MNRAS.458.2940C

Petrov, Blagovest, and 2 colleagues Two bi-stability jumps in theoretical wind models for massive stars and the implications for luminous blue variable supernovae 2016MNRAS.458.1999P

Veropalumbo, A., and 4 colleagues Measuring the distance-redshift relation with the baryon acoustic oscillations of galaxy clusters 2016MNRAS.458.1909V

Kholtygin, A. F., and 1 colleagues Smoothed Temporal Variance Spectrum: weak line profile variations and NRP diagnostics 2016MNRAS.458.1604K

Thomas, Scott W., and 1 colleagues In hot water: effects of temperature-dependent interiors on the radii of water-rich super-Earths 2016MNRAS.458.1330T

Burenin, R. A., and 12 colleagues Observational capabilities of the new medium- and low-resolution spectrograph at the 1.6-m telescope of the Sayan Observatory 2016AstL...42..295B

Khorunzhev, G. A., and 3 colleagues Catalog of candidates for quasars at $z \leq 5.5$ selected among X-Ray sources from the 3XMM-DR4 survey of the XMM-Newton observatory 2016AstL...42..277K

McConnachie, Alan, and 176 colleagues The Detailed Science Case for the Maunakea Spectroscopic Explorer: the Composition and Dynamics of the Faint Universe 2016arXiv160600043M

Garnett, Roman, and 3 colleagues Detecting Damped Lyman- α Absorbers with Gaussian Processes 2016arXiv160504460G

Mukae, Shiro, and 9 colleagues Cosmic Galaxy-IGM HI Relation at $z \sim 2-3$ Probed in the COSMOS/UltraVISTA $1.6^\circ \times 2^\circ$ Field 2016arXiv160500379M

Tutukov, A. V., and 1 colleagues The evolution of close binary stars 2016ARep...60..461T

Coughlin, Jeffrey L., and 34 colleagues Planetary Candidates Observed by Kepler. VII. The First Fully Uniform Catalog Based on the Entire 48-month Data Set (Q1-Q17 DR24) 2016ApJS..224...12C

Geller, Margaret J., and 5 colleagues SHELS: Complete Redshift Surveys of Two Widely Separated Fields 2016ApJS..224...11G

Huber, Daniel, and 8 colleagues The K2 Ecliptic Plane Input Catalog (EPIC) and Stellar Classifications of 138,600 Targets in Campaigns 1-8 2016ApJS..224....2H

Rykoff, E. S., and 89 colleagues The RedMaPPer Galaxy Cluster Catalog From DES Science Verification Data 2016ApJS..224...1R

Li, Jing, and 11 colleagues Selecting M Giants with Infrared Photometry: Distances, Metallicities, and the Sagittarius Stream 2016ApJ...823...59L

Bovy, Jo, and 6 colleagues The Stellar Population Structure of the Galactic Disk 2016ApJ...823...30B

Addison, B. C., and 3 colleagues Spin-orbit Alignment for Three Transiting Hot Jupiters: WASP-103b, WASP-87b, and WASP-66b 2016ApJ...823...29A

Schaefer, Bradley E. KIC 8462852 Faded at an Average Rate of 0.164 ± 0.013 Magnitudes per Century from 1890 to 1989 2016ApJ...822L..34S

Rameau, Julien, and 33 colleagues Constraints on the Architecture of the HD 95086 Planetary System with the Gemini Planet Imager 2016ApJ...822L..29R

Kawahara, Hajime Frequency Modulation of Directly Imaged Exoplanets: Geometric Effect as a Probe of Planetary Obliquity 2016ApJ...822..112K

Morton, Timothy D., and 7 colleagues False Positive Probabilities for all Kepler Objects of Interest: 1284 Newly Validated Planets and 428 Likely False Positives 2016ApJ...822...86M

Guo, Hengxiao, and 1 colleagues The Optical Variability of SDSS Quasars from Multi-epoch Spectroscopy. II. Color Variation 2016ApJ...822...26G

Sharma, Sanjib, and 4 colleagues Stellar Population Synthesis Based Modeling of the Milky Way Using Asteroseismology of 13,000 Kepler Red Giants 2016ApJ...822...15S

Baiesi Pillastrini, Giovanni C. Does the Corona Borealis Supercluster form a giant binary-like system? 2016Ap&SS.361..176B

Schwartz, Eyal, and 2 colleagues Improving identification of weak spectral lines in the presence of a strong continuum 2016Ap&SS.361..166S

Boberg, Owen M., and 5 colleagues Limitations of CN and CH Molecular Band Strengths at High Metallicities: A Case Study in NGC 6791 2016AJ....151..127B

Yu, Po-Chieh, and 20 colleagues Be Stars in the Open Cluster NGC 6830 2016AJ....151..121Y

Morgan, Dylan P., and 2 colleagues Using Close White Dwarf + M Dwarf Stellar Pairs to Constrain the Flare Rates in Close Stellar Binaries 2016AJ....151..114M

David, Trevor J., and 9 colleagues New Pleiades Eclipsing Binaries and a Hyades Transiting System Identified by K2 2016AJ....151..112D

Klagyivik, P., and 12 colleagues The Berlin Exoplanet Search Telescope II Catalog of Variable Stars. II. Characterization of the CoRoT SRc02 Field 2016AJ....151..110K

Mancini, L., and 8 colleagues Kepler-539: A young extrasolar system with two giant planets on wide orbits and in gravitational interaction 2016A&A...590A.112M

Elliott, P., and 7 colleagues Search for associations containing young stars (SACY). VII. New stellar and substellar candidate members in the young associations 2016A&A...590A..13E

Vida, K., and 10 colleagues Investigating magnetic activity in very stable stellar magnetic fields. Long-term photometric and spectroscopic study of the fully convective M4 dwarf V374 Pegasi 2016A&A...590A..11V

Kerp, J., and 2 colleagues Star formation in a diffuse high-altitude cloud?
2016A&A...589A.123K

Gómez, A., and 6 colleagues A new look at the kinematics of the bulge
from
an N-body model 2016A&A...589A.122G

Salabert, D., and 14 colleagues Magnetic variability in the young solar
analog KIC 10644253. Observations from the Kepler satellite and the HERMES
spectrograph 2016A&A...589A.118S

Smiljanic, R., and 42 colleagues The Gaia-ESO Survey: Sodium and aluminium
abundances in giants and dwarfs. Implications for stellar and Galactic
chemical evolution 2016A&A...589A.115S

Deheuvels, S., and 7 colleagues Measuring the extent of convective cores in
low-mass stars using Kepler data: toward a calibration of core overshooting
2016A&A...589A..93D

Rovero, A. C., and 3 colleagues The BL-Lacertae gamma-ray blazar PKS
1424+240 associated with a group of galaxies at $z = 0.6010$
2016A&A...589A..92R

Haywood, M., and 6 colleagues When the Milky Way turned off the lights:
APOGEE provides evidence of star formation quenching in our Galaxy
2016A&A...589A..66H

Pall, E., and 13 colleagues The GTC exoplanet transit spectroscopy
survey.
III. No asymmetries in the transit of CoRoT-29b 2016A&A...589A..62P

von Paris, P., and 4 colleagues Inferring asymmetric limb cloudiness on
exoplanets from transit light curves 2016A&A...589A..52V

Beck, P. G., and 9 colleagues The HERMES solar atlas and the spectroscopic
analysis of the seismic solar analogue KIC 3241581 2016A&A...589A..27B

Antoja, T., and 3 colleagues Kinematics of symmetric Galactic longitudes to
probe the spiral arms of the Milky Way with Gaia 2016A&A...589A..13A

Pappalardo, Ciro, and 14 colleagues The Herschel Virgo Cluster Survey. XIX.
Physical properties of low luminosity FIR sources at $z \lesssim 0.5$
2016A&A...589A..11P

Kepler, S. O., and 2 colleagues A white dwarf with an oxygen atmosphere
2016Sci...352...67K

Zhou, Xu, and 15 colleagues South Galactic Cap u-band Sky Survey (SCUSS):
Project Overview 2016RAA....16...69Z

Kitaura, Francisco-Shu, and 16 colleagues Signatures of the Primordial
Universe from Its Emptiness: Measurement of Baryon Acoustic Oscillations
from Minima of the Density Field 2016PhRvL.116q1301K

Schaan, Emmanuel, and 46 colleagues Evidence for the kinematic
Sunyaev-Zel'dovich effect with the Atacama Cosmology Telescope and velocity
reconstruction from the Baryon Oscillation Spectroscopic Survey
2016PhRvD..93h2002S

Rawls, Meredith L. Red Giants in Eclipsing Binaries as a Benchmark for
Asteroseismology 2016PhDT.....13R

Thomas, Neil, and 4 colleagues MARVELS 1D Pipeline Development,
Optimization, and Performance 2016PASP..128d5003T

Yoldaş, Ezgi, and 1 colleague Detailed Chromospheric Activity Nature of KIC 9641031 2016PASA...33...16Y

Takeda, Y., and 5 colleagues Fundamental stellar parameters and age-metallicity relation of Kepler red giants in comparison with theoretical evolutionary tracks 2016MNRAS.457.4454T

Southworth, John, and 49 colleagues High-precision photometry by telescope defocussing - VIII. WASP-22, WASP-41, WASP-42 and WASP-55 2016MNRAS.457.4205S

Leauthaud, Alexie, and 9 colleagues The Stripe 82 Massive Galaxy Project - II. Stellar mass completeness of spectroscopic galaxy samples from the Baryon Oscillation Spectroscopic Survey 2016MNRAS.457.4021L

Zhang, Xue-Guang, and 1 colleague To test dual supermassive black hole model for broad line active galactic nucleus with double-peaked narrow [O III] lines 2016MNRAS.457.3878Z

Croft, Rupert A. C., and 28 colleagues Large-scale clustering of Lyman α emission intensity from SDSS/BOSS 2016MNRAS.457.3541C

Oreshenko, Maria, and 2 colleagues Optical phase curves as diagnostics for aerosol composition in exoplanetary atmospheres 2016MNRAS.457.3420O

Rez-Fernández, E., and 4 colleagues A search for new hot subdwarf stars by means of virtual observatory tools II 2016MNRAS.457.3396P

Maguire, K., and 3 colleagues Searching for swept-up hydrogen and helium in the late-time spectra of 11 nearby Type Ia supernovae 2016MNRAS.457.3254M

Tortora, C., and 14 colleagues Towards a census of supercompact massive galaxies in the Kilo Degree Survey 2016MNRAS.457.2845T

Singh, Sukhdeep, and 1 colleague Intrinsic alignments of BOSS LOWZ galaxies - II. Impact of shape measurement methods 2016MNRAS.457.2301S

Cuesta, Antonio J., and 22 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: baryon acoustic oscillations in the correlation function of LOWZ and CMASS galaxies in Data Release 12 2016MNRAS.457.1770C

Garrido, H. E., and 6 colleagues On the eclipsing binary ELHC 10 with occulting dark disc in the Large Magellanic Cloud 2016MNRAS.457.1675G

Lanza, A. F. Imaging Surface Spots from Space-Borne Photometry 2016LNP...914...43L

Tadross, A. L., and 1 colleague Photometric Study of IC 2156 2016JKAS...49...53T

Carraro, Giovanni, and 7 colleagues Highlights of Commission 37 Science Results 2016IAUTA..29..502C

Cunha, Katia, and 10 colleagues Highlights of IAU Commission 29: Recent Advances and Perspectives on Stellar Spectroscopy 2016IAUTA..29..428C

Deng, Xin-Fa, and 5 colleagues Dependence of the clustering properties of galaxies on galaxy age 2016ChJPh..54..263D

Burenin, R. A., and 8 colleagues Sample of cataclysmic variables detected in the 400d X-ray survey 2016AstL...42..240B

Zhelenkova, O. P., and 1 colleagues Observational manifestations and intrinsic properties of the RCR sources in terms of a unified model 2016AstBu..71..165Z

Yeo, K. L., and 3 colleagues Modelling Solar and Stellar Brightness Variabilities 2016ASPC..504..273Y

Andrews, Brett H., and 3 colleagues Inflow, Outflow, Yields, and Stellar Population Mixing in Chemical Evolution Models 2016arXiv160408613A

Cataldi, Gianni Debris disks and the search for life in the universe 2016arXiv160408540C

Huber, Daniel Precision Stellar Astrophysics in the Kepler Era 2016arXiv160407442H

Turner, Garrison, and 1 colleagues Modeling KIC10684673 and KIC12216817 as Single Pulsating Variables 2016arXiv160404867T

Uyama, Taichi, and 51 colleagues The SEEDS High Contrast Imaging Survey of Exoplanets around Young Stellar Objects 2016arXiv160404697U

Winkler, Hartmut The unusually strong coronal emission lines of SDSS J1055+5637 2016arXiv160404515W

Bruno, Giovanni Characterization of transiting exoplanets: analyzing the impact of the host star on the planet parameters 2016arXiv160403979B

Hinton, Samuel Extraction of Cosmological Information from WiggleZ 2016arXiv160401830H

Inserra, C., and 34 colleagues On the nature of Hydrogen-rich Superluminous Supernovae 2016arXiv160401226I

Tolstov, Alexey, and 5 colleagues Multicolor Light Curve Simulations of Population III Core-Collapse Supernovae: From Shock Breakout to $\langle \text{S} \rangle 56 \langle / \text{S} \rangle \text{Co}$ Decay 2016ApJ...821..124T

Harikane, Yuichi, and 17 colleagues Evolution of Stellar-to-Halo Mass Ratio at $z = 0 - 7$ Identified by Clustering Analysis with the Hubble Legacy Imaging and Early Subaru/Hyper Suprime-Cam Survey Data 2016ApJ...821..123H

Wolf, Rachel C., and 15 colleagues SDSS-II Supernova Survey: An Analysis of the Largest Sample of Type Ia Supernovae and Correlations with Host-galaxy Spectral Properties 2016ApJ...821..115W

Zahid, H. Jabran, and 4 colleagues The Stellar Mass Fundamental Plane and Compact Quiescent Galaxies at $z < 0.6$ 2016ApJ...821..101Z

Schlafly, E. F., and 21 colleagues The Optical-infrared Extinction Curve and Its Variation in the Milky Way 2016ApJ...821...78S

Brakensiek, Joshua, and 1 colleagues Efficient Geometric Probabilities of Multi-Transiting Exoplanetary Systems from CORBITS 2016ApJ...821...47B

Grillmair, Carl J., and 1 colleagues What a Tangled Web We Weave: Hermus as the Northern Extension of the Phoenix Stream 2016ApJ...820L..27G

Marion, G. H., and 28 colleagues SN~2012cg: Evidence for Interaction Between a Normal Type Ia Supernova and a Non-degenerate Binary Companion 2016ApJ...820...92M

Heller, Renée, and 2 colleagues Modeling the Orbital Sampling Effect of

Extrasolar Moons 2016ApJ...820...88H

Kjurkchieva, D., and 2 colleagues Light curve solutions and out-of-eclipse variabilities of six eccentric Kepler binaries 2016Ap&SS.361..132K

Ak, T., and 7 colleagues CCD UBV photometry of the open cluster NGC 6819 2016Ap&SS.361..126A

Abdul-Masih, Michael, and 11 colleagues Kepler Eclipsing Binary Stars. VIII. Identification of False Positive Eclipsing Binaries and Re-extraction of New Light Curves 2016AJ....151..101A

Brahm, R., and 22 colleagues HATS-17b: A Transiting Compact Warm Jupiter in a 16.3 Day Circular Orbit 2016AJ....151...89B

Maciejewski, G., and 13 colleagues Departure from the constant-period ephemeris for the transiting exoplanet WASP-12 2016A&A...588L...6M

Lietzen, H., and 8 colleagues Discovery of a massive supercluster system at $z \sim 0.47$ 2016A&A...588L...4L

Kama, M., and 25 colleagues Observations and modelling of CO and [C i] in protoplanetary disks. First detections of [C i] and constraints on the carbon abundance 2016A&A...588A.108K

Bianconi, Matteo, and 2 colleagues Star formation and black hole accretion activity in rich local clusters of galaxies 2016A&A...588A.105B

Buysschaert, B., and 9 colleagues Testing the asymptotic relation for period spacings from mixed modes of red giants observed with the Kepler mission 2016A&A...588A..82B

Verdier, Loïc, and 5 colleagues Quasar host environments: The view from Planck 2016A&A...588A..61V

Baade, D., and 15 colleagues Short-term variability and mass loss in Be stars. I. BRITE satellite photometry of η ; and μ ; Centauri 2016A&A...588A..56B

Taddia, F., and 19 colleagues Long-rising Type II supernovae from Palomar Transient Factory and Caltech Core-Collapse Project 2016A&A...588A...5T

De Paolis, Francesco, and 5 colleagues The Scales of Gravitational Lensing 2016Univ....2....6D

Borucki, William J. KEPLER Mission: development and overview 2016RPPh...79c6901B

Zhang, M., and 6 colleagues Precision Multiband Photometry with a DSLR Camera 2016PASP..128c5001Z

Du, Changde, and 4 colleagues An Efficient Method for Rare Spectra Retrieval in Astronomical Databases 2016PASP..128c4502D

Stello, Dennis, and 4 colleagues Suppression of Quadrupole and Octupole Modes in Red Giants Observed by Kepler * 2016PASA...33...11S

Lagarde, N., and 4 colleagues Testing the cores of first ascent red giant stars using the period spacing of g modes 2016MNRAS.457L..59L

MacLeod, Chelsea L., and 12 colleagues A systematic search for changing-look quasars in SDSS 2016MNRAS.457..389M

Menzel, M.-L., and 12 colleagues A spectroscopic survey of X-ray-selected

AGNs in the northern XMM-XXL field 2016MNRAS.457..110M

Clampitt, Joseph, and 2 colleagues Clustering and bias measurements of SDSS voids 2016MNRAS.456.4425C

Kitaura, Francisco-Shu, and 22 colleagues The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: mock galaxy catalogues for the BOSS Final Data Release 2016MNRAS.456.4156K

Siwak, Michal, and 10 colleagues Stable and unstable accretion in the classical T Tauri stars IM Lup and RU Lup as observed by MOST 2016MNRAS.456.3972S

Buddendiek, A., and 11 colleagues RCSLenS: a new estimator for large-scale galaxy-matter correlations 2016MNRAS.456.3886B

Alam, Shadab, and 2 colleagues Testing deviations from Λ CDM with growth rate measurements from six large-scale structure surveys at $z = 0.06-1$ 2016MNRAS.456.3743A

Ozbek, Melih, and 2 colleagues Large-scale 3D mapping of the intergalactic medium using the Lyman α forest 2016MNRAS.456.36100

Benetti, S., and 11 colleagues The spectacular evolution of Supernova 1996al over 15 yr: a low-energy explosion of a stripped massive star in a highly structured environment 2016MNRAS.456.3296B

Montero-Dorta, Antonio D., and 4 colleagues A steep slope and small scatter for the high-mass end of the L- σ relation at $z \sim 0.55$ 2016MNRAS.456.3265M

Snaith, O. N., and 7 colleagues The history of stellar metallicity in a simulated disc galaxy 2016MNRAS.456.3119S

Demetroullas, C., and 1 colleagues Cross-correlation cosmic shear with the SDSS and VLA FIRST surveys 2016MNRAS.456.3100D

Hakobyan, A. A., and 8 colleagues Supernovae and their host galaxies - III. The impact of bars and bulges on the radial distribution of supernovae in disc galaxies 2016MNRAS.456.2848H

Nataf, David M., and 20 colleagues Interstellar extinction curve variations towards the inner Milky Way: a challenge to observational cosmology 2016MNRAS.456.2692N

Bergfors, C., and 6 colleagues Characterization of close visual binaries from the AstraLux Large M Dwarf Survey 2016MNRAS.456.2576B

Lisse, C. M., and 2 colleagues KIC 8462852: Further Evidence for Late Heavy Bombardments in the Astronomical Record 2016LPI....47.2965L

Rozitis, B., and 6 colleagues Thermal Emission Light-Curves of Rapidly Rotating Asteroids 2016LPI....47.1447R

Yeghiazaryan, A. A., and 2 colleagues H α Velocity Fields and Galaxy Interaction in the Quartet of Galaxies NGC 7769, 7770, 7771 and 7771A 2016JApA...37....1Y

Lake, Sean E., and 1 colleagues $\$K\$\$ -corrections: an Examination of their Contribution to the Uncertainty of Luminosity Measurements 2016arXiv160307299L

Peebles, P. J. E. Robert Dicke and the naissance of experimental gravity physics, 1957-1967 2016arXiv160306474P

Tian, Hai-Jun, and 9 colleagues The peculiar velocities in the Galactic outer disk--hints of the elliptical disk and the perturbation of the spiral structures 2016arXiv160306262T

Casey, Andrew R., and 5 colleagues The Cannon 2: A data-driven model of stellar spectra for detailed chemical abundance analyses 2016arXiv160303040C

Massari, Davide, and 5 colleagues Multiple stellar populations in the globular cluster M3 (NGC 5272): a Strömgren perspective 2016arXiv160302827M

Brahm, Rafael, and 11 colleagues An independent discovery of two hot Jupiters from the K2 mission 2016arXiv160301721B

Paudel, Sanjaya, and 3 colleagues SDSS J085431.18+173730.5: The First Compact Elliptical Galaxy Hosting an Active Nucleus 2016ApJ...820L..19P

Balbinot, E., and 52 colleagues The Phoenix Stream: A Cold Stream in the Southern Hemisphere 2016ApJ...820...58B

Van Eylen, Vincent, and 21 colleagues The K2-ESPRINT Project. II. Spectroscopic Follow-up of Three Exoplanet Systems from Campaign 1 of K2 2016ApJ...820...56V

Xue, Yuxin, and 1 colleagues Difficulty in the Formation of Counter-orbiting Hot Jupiters from Near-coplanar Hierarchical Triple Systems: A Sub-stellar Perturber 2016ApJ...820...55X

Toba, Y., and 1 colleagues Search for Hyperluminous Infrared Dust-obscured Galaxies Selected with WISE and SDSS 2016ApJ...820...46T

Bodman, Eva H. L., and 1 colleagues KIC 8462852: Transit of a Large Comet Family 2016ApJ...819L..34B

Kirby, Evan N., and 7 colleagues Lithium-rich Giants in Globular Clusters 2016ApJ...819..135K

Assef, R. J., and 12 colleagues Hot Dust Obscured Galaxies with Excess Blue Light: Dual AGN or Single AGN Under Extreme Conditions? 2016ApJ...819..111A

Campante, T. L., and 25 colleagues Spin-Orbit Alignment of Exoplanet Systems: Ensemble Analysis Using Asteroseismology 2016ApJ...819...85C

Lian, Jianhui, and 4 colleagues The Metallicity Evolution of Blue Compact Dwarf Galaxies from the Intermediate Redshift to the Local Universe 2016ApJ...819...73L

Rines, Kenneth J., and 3 colleagues HeCS-SZ: The Hectospec Survey of Sunyaev-Zeldovich-selected Clusters 2016ApJ...819...63R

Arcavi, Iair, and 28 colleagues Rapidly Rising Transients in the Supernova-Supernova Gap 2016ApJ...819...35A

Lehmann, H., and 6 colleagues KIC 7177553: A Quadruple System of Two Close Binaries 2016ApJ...819...33L

Ness, M., and 14 colleagues APOGEE Kinematics. I. Overview of the Kinematics of the Galactic Bulge as Mapped By APOGEE 2016ApJ...819....2N

Ouyed, Rachid, and 1 colleagues Nuclear fusion in the deuterated cores of inflated hot Jupiters 2016Ap&SS.361...890

Eigmler, Ph., and 11 colleagues An M Dwarf Companion to an F-type Star in a Young Main-sequence Binary 2016AJ....151...84E

McGreer, Ian D., and 3 colleagues A Constraint on Quasar Clustering at $z = 5$ from a Binary Quasar 2016AJ....151...61M

Taddia, F., and 15 colleagues Metallicity from Type II supernovae from the (i)PTF 2016A&A...587L...7T

Andreon, S. Richness-based masses of rich and famous galaxy clusters 2016A&A...587A.158A

Breitfelder, J., and 6 colleagues Observational calibration of the projection factor of Cepheids. II. Application to nine Cepheids with HST/FGS parallax measurements 2016A&A...587A.117B

Baes, Maarten, and 1 colleagues The nature of the UV halo around the spiral galaxy NGC 3628 2016A&A...587A..86B

Meusinger, H., and 3 colleagues Broad-band spectral energy distribution of 3000 Λ break quasars from the Sloan Digital Sky Survey 2016A&A...587A..83M

Boselli, A., and 16 colleagues Spectacular tails of ionized gas in the Virgo cluster galaxy NGC 4569 2016A&A...587A..68B

Delgado Mena, E., and 8 colleagues Searching for Li-rich giants in a sample of 12 open clusters. Li enhancement in two stars with substellar companions 2016A&A...587A..66D

Santerne, A., and 21 colleagues SOPHIE velocimetry of Kepler transit candidates. XVII. The physical properties of giant exoplanets within 400 days of period 2016A&A...587A..64S

Palanque-Delabrouille, N., and 13 colleagues The extended Baryon Oscillation Spectroscopic Survey: Variability selection and quasar luminosity function 2016A&A...587A..41P

van der Burg, R. F. J., and 15 colleagues Prospects for high- z cluster detections with Planck, based on a follow-up of 28 candidates using MegaCam at CFHT 2016A&A...587A..23V

Miranda, M. S., and 11 colleagues Origin of the metallicity distribution in the thick disc 2016A&A...587A..10M

Davies, G. R., and 18 colleagues Oscillation frequencies for 35 Kepler solar-type planet-hosting stars using Bayesian techniques and machine learning 2016MNRAS.456.2183D

Sergeyev, A. V., and 3 colleagues Discovery of the optically bright, wide separation double quasar SDSS J1442+4055 2016MNRAS.456.1948S

More, Anupreeta, and 17 colleagues The SDSS-III BOSS quasar lens survey: discovery of 13 gravitationally lensed quasars 2016MNRAS.456.1595M

Ciceri, S., and 47 colleagues Physical properties of the planetary systems WASP-45 and WASP-46 from simultaneous multiband photometry 2016MNRAS.456..990C

Spector, O., and 1 colleagues Extremely isolated galaxies - I. Sample and simulation analysis 2016MNRAS.456..885S

Molaeinezhad, A., and 5 colleagues Establishing the level of cylindrical rotation in boxy/peanut bulges 2016MNRAS.456..692M

Miszalski, Brent, and 10 colleagues Discovery of an eclipsing dwarf nova in the ancient nova shell Te 11 2016MNRAS.456..633M

Janz, Joachim, and 13 colleagues The AIMSS Project - III. The stellar populations of compact stellar systems 2016MNRAS.456..617J

Pawlowski, Marcel S. The alignment of SDSS satellites with the VPOS: effects of the survey footprint shape 2016MNRAS.456..448P

Ceillier, T., and 9 colleagues Rotation periods and seismic ages of KOIs - comparison with stars without detected planets from Kepler observations 2016MNRAS.456..119C

Manser, Christopher J., and 8 colleagues Doppler imaging of the planetary debris disc at the white dwarf SDSS J122859.93+104032.9 2016MNRAS.455.4467M

Anderson, R. I., and 10 colleagues Investigating Cepheid & Carinae's cycle-to-cycle variations via contemporaneous velocimetry and interferometry 2016MNRAS.455.4231A

Borkovits, T., and 6 colleagues A comprehensive study of the Kepler triples via eclipse timing 2016MNRAS.455.4136B

Marín, Felipe A., and 5 colleagues The BOSS-WiggleZ overlap region - II. Dependence of cosmic growth on galaxy type 2016MNRAS.455.4046M

Davies, L. J. M., and 15 colleagues Galaxy And Mass Assembly (GAMA): growing up in a bad neighbourhood - how do low-mass galaxies become passive? 2016MNRAS.455.4013D

Kepler, S. O., and 9 colleagues New white dwarf and subdwarf stars in the Sloan Digital Sky Survey Data Release 12 2016MNRAS.455.3413K

Gould, Andrew, and 2 colleagues Euclid Asteroseismology and Kuiper Belt Objects 2016JKAS...49....9G

Jimenez, Raul, and 2 colleagues Neutrino footprint in Large Scale Structure 2016arXiv160208430J

Christensen-Dalsgaard, J. Asteroseismology with solar-like oscillations 2016arXiv160206838C

Tasca, L. A. M., and 47 colleagues The VIMOS Ultra Deep Survey First Data Release: spectra and spectroscopic redshifts of 698 objects up to $z \sim 6$ in CANDELS 2016arXiv160201842T

Gang, Li, and 2 colleagues Light Curve Solutions of an Eclipsing Binary OGLE-GD-ECL-04451 with a Dramatic Change in Amplitude 2016arXiv160201552G

Abeysekara, A. U., and 80 colleagues A Search for Brief Optical Flashes Associated with the SETI Target KIC 8462852 2016ApJ...818L..33A

Cenko, S. Bradley, and 20 colleagues An Ultraviolet Spectrum of the Tidal Disruption Flare ASASSN-14li 2016ApJ...818L..32C

Loebman, Sarah R., and 7 colleagues Imprints of Radial Migration on the Milky Way's Metallicity Distribution Functions 2016ApJ...818L...6L

Hwang, Ho Seong, and 12 colleagues HectoMAP and Horizon Run 4: Dense Structures and Voids in the Real and Simulated Universe 2016ApJ...818..173H

Zuluaga, Jorge I., and 2 colleagues Constraining the Radiation and Plasma Environment of the Kepler Circumbinary Habitable-zone Planets 2016ApJ...818..160Z

Brown, Warren R., and 4 colleagues The ELM Survey. VII. Orbital Properties of Low-Mass White Dwarf Binaries 2016ApJ...818..155B

Bulbul, Esra, and 14 colleagues Probing the Outskirts of the Early-Stage Galaxy Cluster Merger A1750 2016ApJ...818..131B

Bovy, Jo, and 4 colleagues On Galactic Density Modeling in the Presence of Dust Extinction 2016ApJ...818..130B

Rawls, Meredith L., and 9 colleagues KIC 9246715: The Double Red Giant Eclipsing Binary with Odd Oscillations 2016ApJ...818..108R

Iliadis, C., and 4 colleagues On Potassium and Other Abundance Anomalies of Red Giants in NGC 2419 2016ApJ...818...98I

Flaherty, Kevin M., and 8 colleagues Resolved CO Gas Interior to the Dust Rings of the HD 141569 Disk 2016ApJ...818...97F

LaMassa, Stephanie M., and 20 colleagues On R-W1 as A Diagnostic to Discover Obscured Active Galactic Nuclei in Wide-area X-Ray Surveys 2016ApJ...818...88L

Pace, Cameron, and 1 colleagues Suppression of Star Formation in the Hosts of Low-excitation Radio Galaxies 2016ApJ...818...65P

Da Rio, Nicola, and 16 colleagues IN-SYNC. IV. The Young Stellar Population in the Orion A Molecular Cloud 2016ApJ...818...59D

Mann, Andrew W., and 10 colleagues Zodiacal Exoplanets in Time (ZEIT). I. A Neptune-sized Planet Orbiting an M4.5 Dwarf in the Hyades Star Cluster 2016ApJ...818...46M

Shen, Yue, and 28 colleagues The Sloan Digital Sky Survey Reverberation Mapping Project: First Broad-line H β ; and Mg II Lags at $z \sim 0.3$ from Six-month Spectroscopy 2016ApJ...818...30S

Carlberg, Joleen K., and 3 colleagues Lithium in Open Cluster Red Giants Hosting Substellar Companions 2016ApJ...818...25C

Lopez, Eric D., and 1 colleagues Re-inflated Warm Jupiters around Red Giants 2016ApJ...818....4L

LaMassa, Stephanie M., and 25 colleagues The 31 Deg² Release of the Stripe 82 X-Ray Survey: The Point Source Catalog 2016ApJ...817..172L

Zolotukhin, I., and 4 colleagues A Search for Hyperluminous X-Ray Sources in the XMM-Newton Source Catalog 2016ApJ...817...88Z

Wu, Ping, and 1 colleagues Comparisons of the galaxy age, stellar velocity dispersion and K-band luminosity distributions between grouped galaxies and isolated ones 2016Ap&SS.361...74W

Dawson, Kyle S., and 145 colleagues The SDSS-IV Extended Baryon Oscillation Spectroscopic Survey: Overview and Early Data 2016AJ....151...44D

Theissen, Christopher A., and 2 colleagues Motion Verified Red Stars (MoVeRS): A Catalog of Proper Motion Selected Low-mass Stars from WISE, SDSS, and 2MASS 2016AJ....151...41T

Lang, Dustin, and 2 colleagues WISE Photometry for 400 Million SDSS Sources 2016AJ....151...36L

Walker, Lisa May, and 7 colleagues Global Properties of Neutral Hydrogen in

Compact Groups 2016AJ...151...30W

Ruiz-Lara, T., and 6 colleagues The imprint of satellite accretion on the chemical and dynamical properties of disc galaxies 2016A&A...586A.112R

Schunker, H., and 4 colleagues Asteroseismic inversions for radial differential rotation of Sun-like stars: ensemble fits 2016A&A...586A..79S

Rojas-Arriagada, A., and 26 colleagues The Gaia-ESO Survey: Separating disk chemical substructures with cluster models. Evidence of a separate evolution in the metal-poor thin disk 2016A&A...586A..39R

Schunker, H., and 2 colleagues Asteroseismic inversions for radial differential rotation of Sun-like stars: Sensitivity to uncertainties 2016A&A...586A..24S

Kallinger, Thomas, and 4 colleagues Precise stellar surface gravities from the time scales of convectively driven brightness variations 2016SciA....250654K

Sz´z, D´nes, and 8 colleagues Adjustment errors of sunstones in the first step of sky-polarimetric Viking navigation: studies with dichroic cordierite/ tourmaline and birefringent calcite crystals 2016RSOS....350406S

Vinkovi´, D., and 14 colleagues Big data era in meteor science 2016pimo.conf..319V

Stenborg, Travis A New Population of Galactic Bulge Planetary Nebulas 2016PhDT.....105S

Zasche, P. First analysis of eight Algol-type binaries: EI Aur, XY Dra, BP Dra, DD Her, VX Lac, WX Lib, RZ Lyn, and TY Tri 2016NewA...42...1Z

van Saders, Jennifer L., and 7 colleagues Weakened magnetic braking as the origin of anomalously rapid rotation in old field stars 2016Natur.529..181V

Slepian, Zachary, and 1 colleague Accelerating the two-point and three-point galaxy correlation functions using Fourier transforms 2016MNRAS.455L..31S

Binks, A. S., and 1 colleague Spectroscopic confirmation of M-dwarf candidate members of the Beta Pictoris and AB Doradus Moving Groups 2016MNRAS.455.3345B

Beutler, Florian, and 6 colleagues The BOSS-WiggleZ overlap region - I. Baryon acoustic oscillations 2016MNRAS.455.3230B

Hamers, Adrian S., and 2 colleagues A triple origin for the lack of tight coplanar circumbinary planets around short-period binaries 2016MNRAS.455.3180H

Lavaux, Guilhem, and 1 colleague Unmasking the masked Universe: the 2M++ catalogue through Bayesian eyes 2016MNRAS.455.3169L

Armstrong, D. J., and 6 colleagues The host stars of Kepler's habitable exoplanets: superflares, rotation and activity 2016MNRAS.455.3110A

Richards, S. N., and 23 colleagues The SAMI Galaxy Survey: can we trust aperture corrections to predict star formation? 2016MNRAS.455.2826R

Ramsay, Gavin, and 6 colleagues Continuous 'stunted' outbursts detected from the cataclysmic variable KIC 9202990 using Kepler data

2016MNRAS.455.2772R

Tejos, Nicolas, and 8 colleagues Towards the statistical detection of the warm-hot intergalactic medium in intercluster filaments of the cosmic web 2016MNRAS.455.2662T

Roederer, Ian U., and 5 colleagues Detailed chemical abundances in NGC 5824: another metal-poor globular cluster with internal heavy element abundance variations 2016MNRAS.455.2417R

Almosallam, Ibrahim A., and 3 colleagues A sparse Gaussian process framework for photometric redshift estimation 2016MNRAS.455.2387A

Gentile Fusillo, Nicola Pietro, and 2 colleagues A search for variable white dwarfs in large-area time-domain surveys: a pilot study in SDSS Stripe 82 2016MNRAS.455.2295G

Rong, Yu, and 2 colleagues Galaxy alignment as a probe of large-scale filaments 2016MNRAS.455.2267R

Fossati, Matteo, and 5 colleagues MUSE sneaks a peek at extreme ram-pressure stripping events - II. The physical properties of the gas tail of ESO137-001 2016MNRAS.455.2028F

Huang, Yun-Hsin, and 3 colleagues Characterizing the chemically enriched circumgalactic medium of $\sim 38\,000$ luminous red galaxies in SDSS DR12 2016MNRAS.455.1713H

Reid, Beth, and 41 colleagues SDSS-III Baryon Oscillation Spectroscopic Survey Data Release 12: galaxy target selection and large-scale structure catalogues 2016MNRAS.455.1553R

Casagrande, L., and 12 colleagues Measuring the vertical age structure of the Galactic disc using asteroseismology and SAGA 2016MNRAS.455..987C

Iorio, L. Accurate characterization of the stellar and orbital parameters of the exoplanetary system WASP-33 b from orbital dynamics 2016MNRAS.455..207I

Martell, Sarah L. Studying Young Stars with Large Spectroscopic Surveys 2016IAUS..314..276M

Køspøl, Á, and 1 colleagues Debris Disks in Nearby Young Moving Groups in the ALMA Era 2016IAUS..314..183K

Kennedy, Grant M., and 1 colleagues Two-temperature Debris Disks: Signposts for Directly Imaged Planets? 2016IAUS..314..163K

Kjurkchieva, Diana, and 2 colleagues Solution of Newly Observed Transit of the Exoplanet Hat-P-24B: No TTV and TDV Signals 2016IlgAJ..24..101K

Zhelenkova, O. P., and 1 colleagues Search for radio transients and recent detection of radio sources in the RATAN-600 surveys of 1980-1994 2016AstBu..71...14Z

Ho, Anna Y. Q., and 8 colleagues Label Transfer from APOGEE to LAMOST: Precise Stellar Parameters for 450,000 LAMOST Giants 2016arXiv160200303H

Olofsson, J., and 32 colleagues Azimuthal asymmetries in the debris disk around HD61005 2016arXiv160107861O

Taddia, F., and 19 colleagues Long-rising Type II supernovae from PTF and CCCP 2016arXiv160107368T

XueGuang, Zhang, and 1 colleagues To test dual supermassive black hole model for broad line AGN with double-peaked narrow [OIII] lines 2016arXiv160105858X

Horner, Jonathan, and 1 colleagues 2001 QRS_{322}\$ - an update on Neptune's first unstable Trojan companion 2016arXiv160100383H

Di Mauro, M. P., and 15 colleagues Internal Rotation of the Red-giant Star KIC 4448777 by Means of Asteroseismic Inversion 2016ApJ...817...65D

Tilton, Evan M., and 3 colleagues HST-COS Observations of AGNs. III. Spectral Constraints in the Lyman Continuum from Composite COS/G140L Data 2016ApJ...817...56T

Moore, Kevin, and 1 colleagues Main Sequence Evolution with Layered Semiconvection 2016ApJ...817...54M

Bovy, Jo The Chemical Homogeneity of Open Clusters 2016ApJ...817...49B

Ji, Alexander P., and 3 colleagues High-resolution Spectroscopy of Extremely Metal-poor Stars in the Least-evolved Galaxies: Bootes II 2016ApJ...817...41J

Feuillet, Diane K., and 6 colleagues Determining Ages of APOGEE Giants with Known Distances 2016ApJ...817...40F

Perley, D. A., and 22 colleagues The Swift Gamma-Ray Burst Host Galaxy Legacy Survey. I. Sample Selection and Redshift Distribution 2016ApJ...817...7P

Toloba, Elisa, and 9 colleagues A Tidally Disrupting Dwarf Galaxy in the Halo of NGC 253 2016ApJ...816L...5T

Bellm, Eric C., and 21 colleagues Properties and Evolution of the Redback Millisecond Pulsar Binary PSR J2129-0429 2016ApJ...816...74B

Wright, Jason T., and 4 colleagues The Ĝ Search for Extraterrestrial Civilizations with Large Energy Supplies. IV. The Signatures and Information Content of Transiting Megastructures 2016ApJ...816...17W

Ting, Yuan-Sen, and 2 colleagues APOGEE Chemical Tagging Constraint on the Maximum Star Cluster Mass in the Alpha-enhanced Galactic Disk 2016ApJ...816...10T

Budding, E., and 4 colleagues Analysis of the exoplanet containing system Kepler-91 2016Ap&SS.361...17B

Morrison, Heather L., and 12 colleagues Globular and Open Clusters Observed by SDSS/SEGUE: The Giant Stars 2016AJ...151...7M

Netopil, M., and 3 colleagues On the metallicity of open clusters. III. Homogenised sample 2016A&A...585A.150N

Andreon, S., and 3 colleagues The amazing diversity in the hot gas content of an X-ray unbiased massive galaxy clusters sample 2016A&A...585A.147A

Buldgen, G., and 2 colleagues Constraints on the structure of 16 Cygni A and 16 Cygni B using inversion techniques 2016A&A...585A.109B

Niedzielski, A., and 5 colleagues The Penn State - Toru´ Centre for Astronomy Planet Search stars 2016A&A...585A..73N

Ioannidis, P., and 2 colleagues How do starspots influence the transit

timing variations of exoplanets? Simulations of individual and consecutive transits 2016A&A...585A..72I

Roxburgh, Ian W. Asteroseismic model fitting by comparing ϵ values 2016A&A...585A..63R

Raichoor, A., and 28 colleagues The SDSS-IV extended Baryon Oscillation Spectroscopic Survey: selecting emission line galaxies using the Fisher discriminant 2016A&A...585A..50R

Marino, R. A., and 28 colleagues Outer-disk reddening and gas-phase metallicities: The CALIFA connection 2016A&A...585A..47M

Santiago, Basilio X., and 18 colleagues Spectro-photometric distances to stars: A general purpose Bayesian approach 2016A&A...585A..42S

Straižys, V., and 7 colleagues The dark cloud TGU H994 P1 (LDN 1399, LDN 1400, and LDN 1402): Interstellar extinction and distance 2016A&A...585A..31S

Bonfanti, A., and 2 colleagues Age consistency between exoplanet hosts and field stars 2016A&A...585A...5B

Cassisi, S., and 2 colleagues Old and new issues in stellar evolution modelling. 2016MmSAI..87..332C

Poretti, E., and 15 colleagues Global Architecture of Planetary Systems (GAPS), a project for the whole Italian Community. 2016MmSAI..87..141P

Arhipova, Natalia A., and 1 colleagues Prospects for studying the dark energy at $z > 2$ with galaxy surveys 2016IJMPD..2550109A

Campante, Tiago L. Spin-orbit alignment of exoplanet systems: analysis of an ensemble of asteroseismic observations 2016IAUFM..29B.636C

Southworth, John Double riches: asteroseismology in eclipsing binaries 2016IAUFM..29B.628S

Saio, Hideyuki, and 2 colleagues Progress and problems in massive star pulsation theory 2016IAUFM..29B.573S

Zwintz, Konstanze Pulsation in pre-main sequence stars 2016IAUFM..29B.552Z

Švegas, Maria, and 2 colleagues How stable are our standard candles? Time-resolved analysis of amplitude and period changes in OGLE-III LMC Cepheids 2016IAUFM..29B.505S

Anderson, Richard I., and 5 colleagues A spectro-interferometric view of ι Carinae's modulated pulsations 2016IAUFM..29B.501A

Bressan, Alessandro Convective mixing in intermediate mass stars 2016IAUFM..29B.156B

Csizmadia, Sz. III.6 Exploration of the brown dwarf regime around solar-like stars by CoRoT 2016cole.book..143C

Deng, Xin-Fa, and 6 colleagues Luminosity-environment relation in the Lowz sample of the Sdss-Iii 2016BaltA..25..153D

Mickaelian, Areg M. Astronomical surveys and big data 2016BaltA..25...75M

Santiago-Bautista, I. del C., and 7 colleagues A Search for Giant Radio Galaxy Candidates and Their Radio-Optical Follow-up 2016ASSP...42..231S

Tortora, C., and 9 colleagues Galaxy Evolution Within the Kilo-Degree Survey 2016ASSP...42..123T

Rampazzo, Roberto, and 13 colleagues The Milky Way and the Local Group 2016ASSL..435...93R

Rampazzo, Roberto, and 19 colleagues Extragalactic Astronomy: From Pioneers to Big Science 2016ASSL..435....1R

Cameron, Andrew Collier Extrasolar Planetary Transits 2016ASSL..428...89C

Smith, Martin C. Kinematically Detected Halo Streams 2016ASSL..420..113S

Yanny, Brian, and 1 colleagues The Monoceros Ring, and Other Substructure Near the Galactic Plane 2016ASSL..420...63Y

Shen, Juntai, and 1 colleagues Theoretical Models of the Galactic Bulge 2016ASSL..418..233S

Gonzalez, Oscar A., and 1 colleagues The Milky Way Bulge: Observed Properties and a Comparison to External Galaxies 2016ASSL..418..199G

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Időpont	Intézmény	Település	Diák	Felnőtt	Összesen
2016.01.19	Gothard Iskola 4.b	Szombathely	25	2	27
2016.01.27	Ált. Iskolások-Gothard előadás	Szombathely	55	5	60
2016.03.18	Szombathely_Spotklub	Szombathely	25	25	50
2016.03.22	Falugondnokok	Órség		25	25
2016.04.15	"Akadémikusok" előadás	Szombathely, TIT	10	35	45
2016.04.18	Aréna Óvoda	Szombathely	25	4	29
2016.05.27	Bük_Csodaország Óvoda	Bük	25	15	40
2016.05.27	Teleki Szakközépiskola	Szombathely	40	5	45
2016.06.06	Waldorf iskola	Szombathely	21	4	25
2016.06.21	Szalézi tábor	Szombathely	26	3	29
2016.06.hó	Budó Egyesület	Szombathely		40	40
2016.07.14	Tábor általános iskolásoknak	Szombathely	27	3	30
2016.07.14	Cserkész tábor	Szombathely	20	16	36
2016.07.28	Cserkészek	Szombathely	42	15	57
2016.07.29	Cserkészek	Szombathely	45	16	61
2016.08.23	Falugondnokok	Órség		24	24
2016.09.30	Kutatók éjszakája bemutatás	Szombathely	36	45	81
2016.09.30	Kutatók éjszakája előadás	Szombathely, TIT	14	10	24
2016.10.14	Szombathelyi Óvónők	Szombathely		34	34
2016.11.01	Szombathelyi Óvónők	Szombathely		18	18
2016.11.16	"Akadémikusok" előadás	Szombathely, TIT	12	31	43
2016.11.18	Gothard Iskola 7.8.osztály	Szombathely	32	2	34
2016.11.25	Gothard Iskola 7.8.osztály	Szombathely	26	3	29
2016.11.26	Kiállítás megnyitó	Szombathely	46	61	107
2016.12.02	Gothard Iskola	Szombathely	28	3	31
2016.12.hó	Adventi nyitva tartás	Szombathely	12	15	27
2016.12.09	Gothard Iskola	Szombathely	20	6	26
2016.12.12	Gothard Iskola 3. osztály	Szombathely	25	2	27
2016	Egyéni látogatók	Budapest, Vasvár, Szombathely	9	32	41
					1145

Összesen

1 145

„Az interstellar és a tudomány” előadások			
Időpont	Helyszín	Szervező	Becsült nézőszám
2016.02.16	Bp. Planetárium	MCSE	350
2016.03.09	Bp. Puskin mozi	Európa Könyvkiadó	220
2016.03.10	Bp. BME Kármán Kollégium	BME GHK	100
2016.03.16	Bp. Puskin mozi	Európa Könyvkiadó	220
2016.03.30	Bp. H13 Diák- és Vállalkozásfejlesztési Központ	Be Smart Klub	170
2016.04.01	Bp. Stylers Group	Stylers Group	30
2016.04.11	Bp. H13 Diák- és Vállalkozásfejlesztési Központ	Be Smart Klub	170
2016.04.20	Bp. Kosztolányi Dezső Gimnázium	Kosztolányi Dezső Gimnázium	200
2016.04.20	Bp. Puskin mozi	Európa Könyvkiadó	200
2016.05.24	Pécs, Tudásközpont	Európa Könyvkiadó	160
2016.05.31	Bp. H13 Diák- és Vállalkozásfejlesztési Központ	Be Smart Klub	170
2016.09.10	Bp. Droneverseny és Robotika Show	Drone Prix Hungary	100
2016.10.04	Szarvas Városi Könyvtár	Csillagász Klub, Szklenár Tamás	40
2016.11.16	Esztergom, Csillagászati hónap	Nyerges Gyula	100

Összesen

2 230

Kihelyezett kiállítások		
Helyszín		Becsült nézőszám
Bolyai Galéria		1150
Sárvári Múzeum		5701
Tiszazugi Földrajzi Múzeum		1500
Túrkeve		1100

Összesen

9 451

Mindösszesen: 12 826

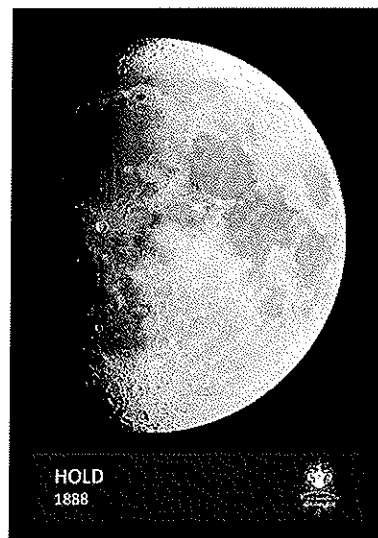
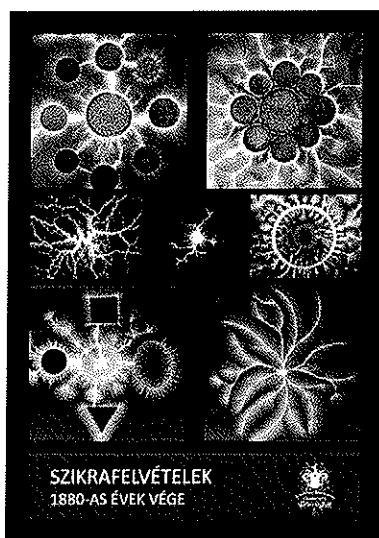
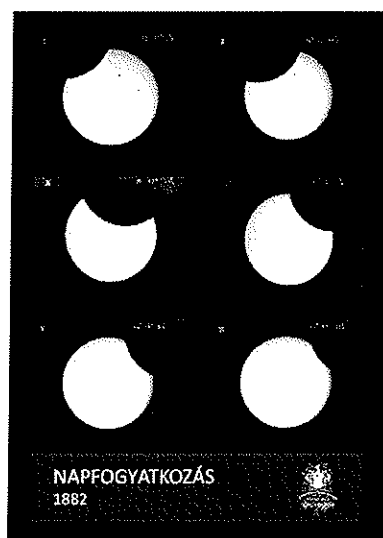
"Ezüstbe zárt Világegyetem" - Gothard Jenő fotólemezei 1882-1905

Gothard Jenő (1857–1909) asztrofizikai kutatásainak tudománytörténeti jelentőségű öröksége az 1880-as évek elejétől az 1900-as évek elejéig keletkezett, mintegy félezer darabból álló, mélyég-objektumokat, üstökösöket és csillagszínképeket rögzítő csillagászati fotólemez-gyűjtemény. A lemezarchívumban őrzött további, körülbelül 400 darab laboratóriumi spektrum-, ívkisülési és röntgenfelvétel a századforduló élvonalbeli természettudományos kutatásainak lenyomata.

Az ELTE Gothard Asztrofizikai Obszervatórium archívumában őrzött fotólemezek főleg 1885 és az 1900-as évek eleje között készültek az égbolt legkülönbözőbb objektumairól: Nap-, Hold- és üstökösfelvételek, bolygó- és csillagspektrumok, gömb- és nyílthalmazokról, planetáris ködökről, galaxisokról, novákról és szupernovákról rögzített képek. Ezen kívül számos szikra- és röntgenfelvétel is megmaradt az archívumban.

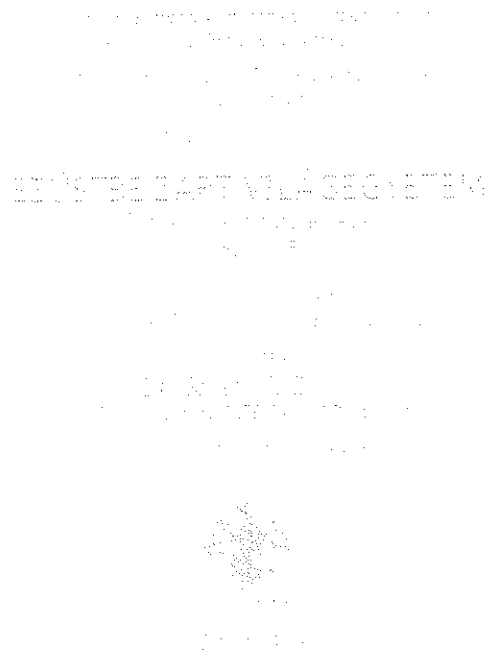
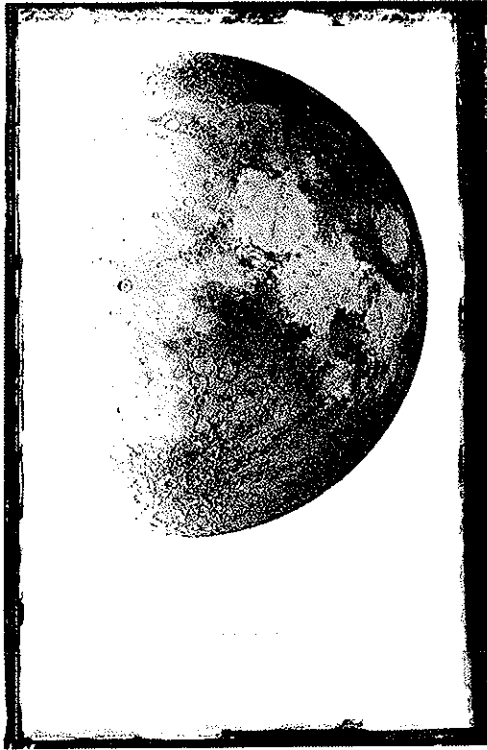
A közel 130 éves fotólemezek óriási jelentőségük a magyar asztrofotográfia és csillagászat történetében, ezért fontos, hogy megőrizzük azokat az utókor számára. 2014 és 2015 során megtörtént a csillagászati fotólemezek és az egyéb anyagok tudományos célokat is kielégítő felbontású és minőségű digitalizálása.

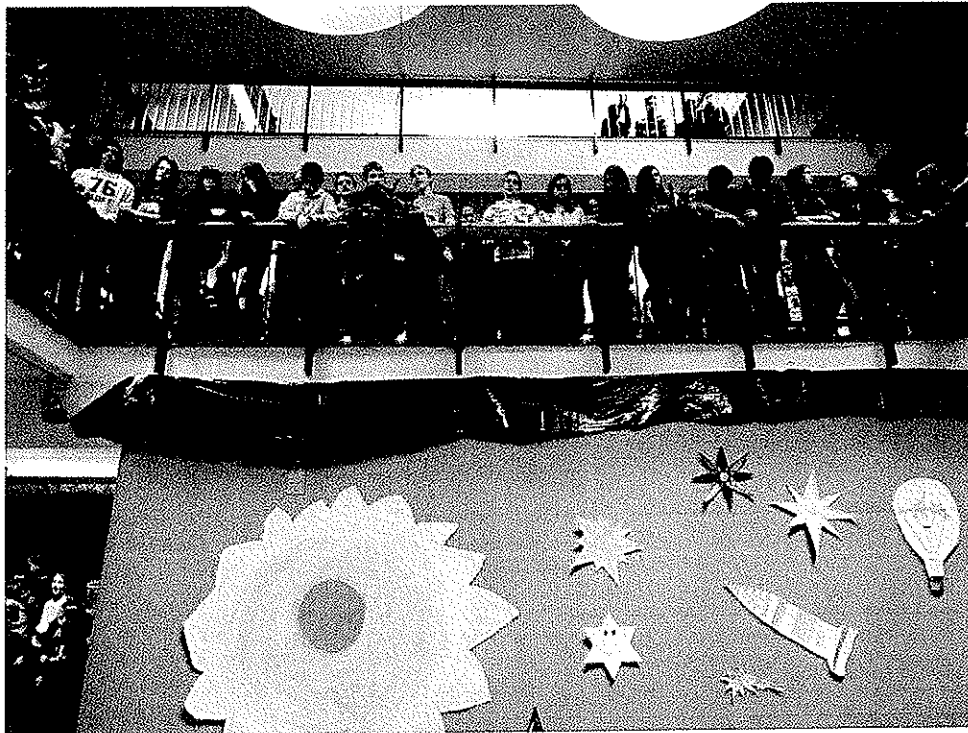
A kiállítás a közel 100 GB-os digitális archívumból nyújt keresztmetszetet, bemutatva Gothard Jenő legjobban sikerült természettudományos és csillagászati felvételeit, amelyek közül néhány minőségét még napjaink komoly digitális felszereléssel rendelkező amatőr csillagásza is megirigyelhetnék.



Ezüstbe zárt Világegyetem – Bolyai Galéria

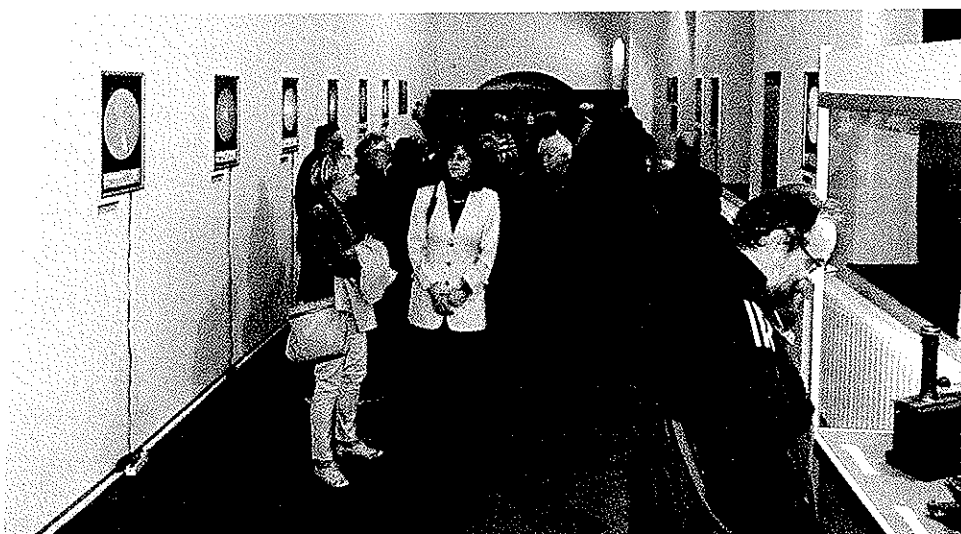
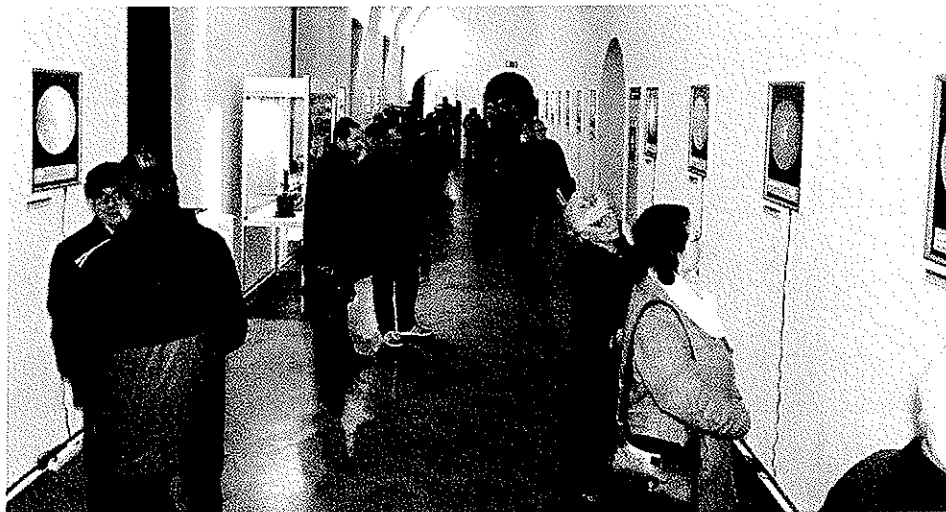
Az ELTE Gothard Asztrofizikai Observatórium és Multidiszciplináris Kutatóközpont és az NymE Bolyai János Gyakorló Általános Iskola és Gimnázium együttműködésének eredményeként időszaki kiállítás nyílt Gothard Jenő 1882 és 1905 között készített csillagászati és egyéb természettudományos témájú digitalizált fotólemezeiből a Bolyai Galériában.





Ezüstbe zárt világegyetem –

Kiállítás-megnyitó a sárvári Nádasdy Ferenc Múzeumban





Dr. Szabó M. Gyula
Igazgató Úr részére

ELTE Gothard Asztrofizikai Obszervatórium
Multidiszciplináris Kutatóközpont

Szombathely
Szent Imre herceg u. 112.
9700

Tisztelt Igazgató!

Levellemel megköszönöm, hogy biztosította számunkra az *Ezüstbe zárt világegyetem. Gothard Jenő tudományos felvételei* című vándorkiállításuk nálunk történő bemutatását.

Örömmel tájékoztatom, hogy a kiállítást 2016. március 23-tól május 31-ig 5701 fő látta. Köztük közel 30 százalék diák. A múzeum a sárvári iskolák tanárainak és diákjainak is kiajánlotta a tárlat megtekintését, akik közül sokan, közel 500 fő élt az alkalmammal.

A kiállításról beszámolt a Vas Népe, illetve a sárvári média.

Kérem, adja át munkatársainak is köszönetemet, akik munkája nélkül a kiállítás létrehozása nem ment volna gördülékenyen.

Sárvár, 2016. június 2.

Tisztelettel:


Takács Zoltán Bálint
múzeumigazgató



A Merkúr-átvonulás megfigyelése a Bolyaiban

Az ELTE GAO MKK munkatársai az NYME Bolyai Gimnázium udvarán mutatták be a Merkúr-átvonulást 2016. május 9-én. Az első két és fél órában inkább csak a felhők lyukain keresztül, aztán némileg jobb fedettségi - illetve fedetlenségi - feltételek mellett. A jelenséget összesen kb. 250-en látták.

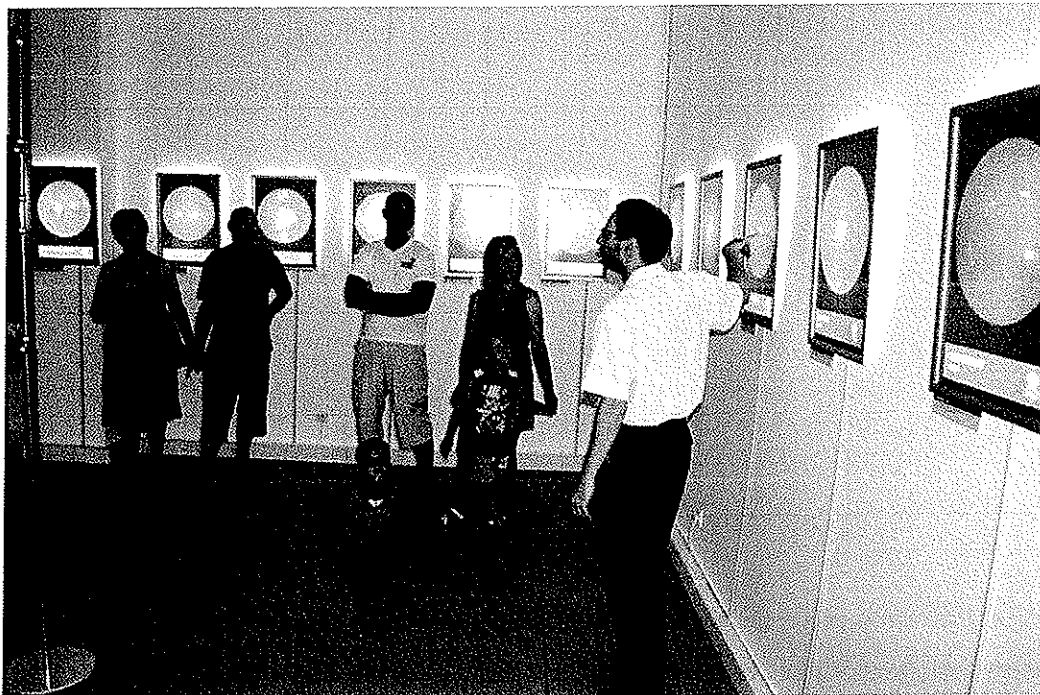




Múzeumok Éjszakája 2016 - Ezüstbe zárt világegyetem

Megnyitó a Tiszazugi Földrajzi Múzeumban

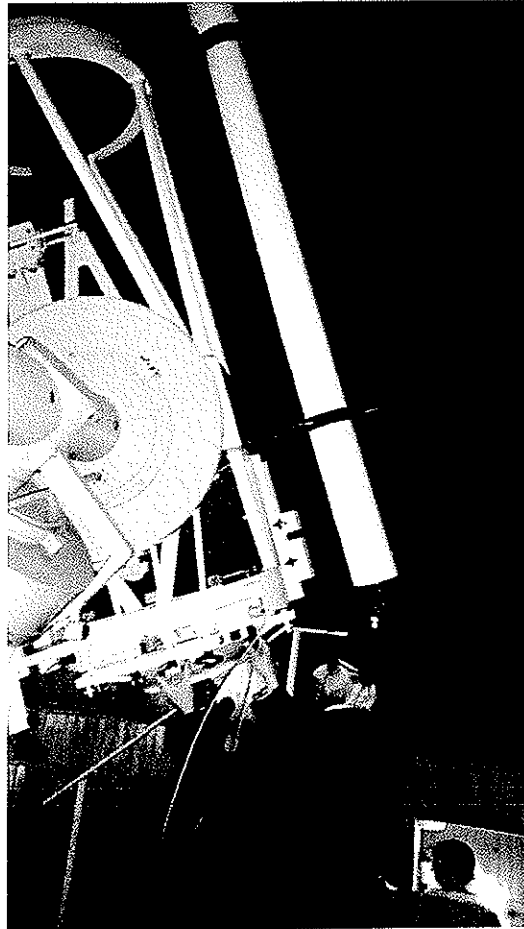
A kiállítást Tiszaföldváron 2016. június 25-én Dr. Szabó M. Gyula, az ELTE Gothard Asztrofizikai Observatórium MKK igazgatója nyitotta meg.





Kutatók Éjszakája 2016

2016. szeptember 30-án, pénteken este hozzánk is ellátogathattak az érdeklődők a Kutatók Éjszakáján! Az időjárás is kedvező volt, így kicsik és nagyok egyaránt élvezték a bolygófigyelést és a múzeumban is körbejárhattak.





„Advent a Csillagvizsgálóban” – a Gothard Asztrofizikai Obszervatórium MKK rendezvénysorozatának és "Égből hullott kövek" c. kiállításának megnyitója

A meteoritkiállítás megnyitása után Dr. Puskás Tivadar, Szombathely MJV polgármestere meggyújtotta az adventi koszorú első gyertyáját a Gothard Jenő Általános Iskola énekkarának kíséretében. A nyolc, Magyarország területén lehullott meteoritból hármat is bemutatunk a kiállításon, amely így lesz igazán reprezentatív, a Naprendszer történetének illusztrálására is teljes körűen alkalmas gyűjtemény. A kiállításon egy darabka Hold, egy darabka Mars, és egy darabka Vesta, és még sok más érdekesség is megtekinthető.

Az „Advent a Csillagvizsgálóban” rendezvénysorozatot hagyományteremtő szándékkal indítottuk újtjára. Az adventi időszakban, a várakozás, a hosszú esték és halvány fények idején – mindennapi munkánkon és hétköznapjaink megszokott ritmusán felülemelkedve – lelkünk fogékonyabb az égi dolgokra. Szeretnénk hozzájárulni ahhoz, hogy Szombathelyen az adventi időszak a fölfelé nézésről, a csendes szemlélődésről is szóljon.

2016 adventi péntekjein, a korán leszálló éj első óráiban mindenki által látogatható csillagászati bemutatókat, és ezekhez kapcsolódó tárlatvezetéseket tartottunk, melyek során a Vénusz, az adventi időszak közepén a Hold, csillaghalmazok, galaxisok és csillagködök bemutatására kerül sor.



