

## Beszámoló

### a Szombathely Megyei Jogú Város Önkormányzata és a Gothard Asztrofizikai Observatórium Multidiszciplináris Kutatóközpont között létrejött megállapodás keretében végzett 2015. évi tevékenységekről

Az ELTE Gothard Asztrofizikai Observatórium Multidiszciplináris Kutatóközpont 2015-ben is sikeresen folytatta **oktatási, kutatási és közművelődési** tevékenységét. Az előre megfogalmazott éves működési feladatokat **maradéktalanul teljesítettük**, nem egy esetben a vállalt feladatoknál többet sikerült megvalósítanunk.

#### Tudományos és oktatási tevékenység

Az ELTE GAO MKK Szombathely jelentős **tudományos műhelye**. A hagyományos természettudományos diszciplínáink (asztrofizika, környezettudomány) művelésébe egyre nagyobb súllyal vonjuk be a legkorszerűbb alkalmazott matematikai és informatikai eszközöket (Big Data alkalmazások), és EU-s együttműködésben ezeket is fejlesztjük. Ennek megfelelően 2015-ben a Vas megyére vonatkozó területfejlesztési stratégiai és szakosodási anyagokba a Big Data technikák fejlesztése és alkalmazása vertikális prioritásként bekerült.

Munkatársaink **transznacionális nagyprojekteknél** játszanak meghatározó szerepet. Ennek megfelelően az év során **számos külföldi professzor** látogatott Szombathelyre, és volt a Gothard Observatórium vendége:

2015. február 24.: **Workshop exobolygók magnetoszférájáról**;

vendég: Earle R Williams (Harvard University).

2015. május 27-29.: **Workshop az APOGEE-2 projektről**;

vendégek: Katia Cunha (Observatório Nacional, Rio de Janeiro)  
Verne Smith (NOAO, USA).

2015. szeptember 27. - 2015. október 3.: **Workshop a csillagászati fotólemezek digitalizálásáról**;

vendégek: Milcho Tsvetkov (Bolgár Tudományos Akadémia Csillagászati Intézet) és  
Katia Tsvetkova. (Bolgár Tudományos Akadémia Csillagászati Intézet)

Szabó M. Gyula a CHEOPS (Characterising Exoplanet Satellite) exobolygókat kutató-űrobservatórium Core Science Team tagja. Ehhez kapcsolódóan **mi rendeztük meg** a Science Team 2015. évi téli találkozóját, amelynek keretében a tudományos testület tagjai (**35 professzor, jellemzően intézetvezetők vagy kutatócsoportvezetők**) voltak a Gothard Observatórium vendégei.

A CHEOPS tudományos tevékenységeihez kötődik a sikeres **magyar-francia együttműködésünk**, melynek keretében Sebastien Charnoz professzor (Geofizikai Intézet, Párizs) magyarországi látogatását, és Szabó M. Gyula franciaországi kutatóútját szerveztük meg – 2016-ra további csereprogramokra is lehetőség nyílik.

A **Big Data kutatások** fejlesztéséhez kapcsolódó EU-s együttműködésünk (BigSkyEarth COST Action program) **Menedzsment Bizottsági tagjaként** (Szabó M. Gyula) részt vettünk a projekt indításában, első két tudományos konferenciájának megszervezésében (2015 március: Belgrád, 2015 október: Dubrovnik), és az első **egy hetes Big Data tehetséggondozási képzés megszervezésében**. Erre az egy hetes Big Data táborra 2016 áprilisában, Brnóban kerül sor, a 30 regisztrált résztvevő hallgató között **magyar fiatalokat is találunk**.

Mészáros Szabolcs az **APOGEE Core Science Team** tagja, az APOGEE-2 programban External Participant. Októbertől **új munkatársunk**, Szigeti László is részt vesz az APOGEE adatokon alapuló kutatásokban. Derekas Aliz a Kepler és a TESS Astroseismic Working Group **RR Lyrae és Cefeida munkacsoportjának vezetője** lett. 2015. április 12-19: Mészáros Szabolcs vendégkutató az Instituto de Astrofísica de Canarias intézetben.

Csák Balázs, Cseh Borbála, Derekas Aliz, Szabó M. Gyula vettek részt a visegrádon megrendezésre kerülő High-precision studies of RR Lyrae stars nemzetközi konferencián, 2015. október 19-22 között. Derekas Aliz **két további konferencia szervezésében** is részt vett (The KASC8/TASC1 Workshop,

június 15-19, Aarhus; Science with BRITe-Constellation, szeptember 14-18., Gdansk). 2015. július 20-24. között Mészáros Szabolcs vett részt az SDSS-IV Collaboration Meeting rendezvényen, Madridban. Május 12-15. között Jankovics István vett részt Heidelbergben az Immo Appenzeller nyolcvanadik születésnapjára rendezett konferencián.

2015-ben **24 referált folyóiratban megjelent cikket közöltünk**, ezen kívül több, mint tíz posztert mutattunk be konferenciákon, és kilenc előadást tartottunk. 2015-ben az ELTE GAO MKK-ban készült összes munkára **összesen 946 hivatkozás érkezett** (ezek közül 501 független). Munkatársaink teljes életművére ebben az évben több, mint 1600 hivatkozás érkezett (ebből mintegy 900 független).

Részt veszünk az **ELTE oktatási tevékenységében**, munkatársaink 2014-ben 6 kredit csillagászati kurzust tartottak az ELTE fizikus- és csillagászképzése keretében (Csillagászati nagyprojektek, Digitális képfeldolgozás és szinképelemzés, Emissziós csillagok nagy felbontású spektroszkópiája). 2 ELTE Bsc-, 2 ELTE Msc-hallgató és egy PhD-hallgató témavezetését végeztük. Bírálóként 3 PhD-védésben vettünk részt.

### **Közművelődési és tehetséggondozási tevékenység**

A természettudományos gondolkodás fejlesztésére rendszeresen tartottunk **tárlatvezetéseket, esti bemutatókat** az obszervatóriumban (Részleges napfogyatkozás, Múzeumok Éjszakája, Kutatók Éjszakája). Rendszeresen **rendhagyó fizikaórákat** tartunk.

**Szombathely közoktatási intézményeivel állandó és élő kapcsolatunk van.** Célunk, hogy minden szombathelyi iskolás lehetőséget kapjon az obszervatórium és a tudománytörténeti gyűjtemény megismerésére is.

Részt vettünk a **Mozaik Múzeumtúrában**, mint az egyik kiállítóhely. Ennek köszönhetően a Magyarország múzeumait bemutató kiadványban egy oldalnyi terjedelemben szerepel a Gothard Obszervatórium. A Mozaik Múzeumtúra 2016-ban megújult formában folytatódik, **együttműködésünket folyamatosan fenntartjuk.**

Az év során 1374 látogató tekintette meg kiállításunkat és esti bemutatóinkat, Ezen kívül 1100 ember vett részt a **részleges napfogyatkozás** bemutatóján a Bolyai Gimnáziumban, és nagyjából százan az Obszervatóriumba is kilátogattak ugyanerre az eseményre.

Az 1886 és 1905 között **Gothard Jenő által készített fotólemezek archiválása** nagy részben megtörtént. Mintegy 550 lemezt digitalizáltunk és katalogizáltunk be az év folyamán. A digitalizált lemezeknek egy része bekerül a Wide-Field Plate Database online használható adatbázisban, amely a csillagászati fotólemezek archívuma.

Gothard Jenő asztrofotográfiai munkásságát **vándorkiállítás** formájában is bemutattuk. A kiállítás gerincét **30, eddig még nem közölt kép** digitalizálása és rekonstrukciója adja, amit A2 méretben, hátulról világított kivitelben állítottunk ki, Gothard néhány **tárgyi eszközével** együtt. Az anyagot 2016-ban több helyen kiállítjuk (Bolyai Galéria: február 4-március 26; sárvári Nadasdy Ferenc múzeum: március 26-május 29; további helyszínek egyeztetés alatt).

**Magyarra fordítottunk két könyvet** (Thorne, K.S.: Az Interstellar és a tudomány, Európa Könyvkiadó, cc. 300 oldal; Gaensler, B.: Szélsőséges Világegyetem, Geobook Hungary Kiadó, cc. 230 oldal), amelyben a tárgyszerű ismeretterjesztés mellett megjelenik a film, mint tudományos ismeretterjesztő műfaj és annak olvasmányos kritikája. A fordító, Kovács József, „Az Interstellar és a tudomány” című előadásával rendszeresen országszerte képviseli a Gothard Obszervatóriumot, alkalmanként sok száz érdeklődő előtt.

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

**Közművelődési tevékenységünk túlnyúlik városunk határain is.** Idén 135 éve, hogy Magyarországon először (a világon harmadszor) 1880-ban Szombathelyen elvégezték a Foucault-féle

ingakísérletet. A jubileum alkalmából a Messzehangzó Tehetségek Alapítvány szervezésében Budapesten 2015. november 9-14. között a **Mammut Bevásárló- és Szórakoztató Központban ismételtük meg a Foucault-ingakísérletet**. Az előzetesen regisztrált osztályok látogatói létszáma 492, ezen kívül legalább további 1000 járókelő tekintette meg az eseményt.

2015. 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. 2015. októberében Kovács József vezetésével csillagászati **olimpiai felkészítő szakkör indult** az Observatóriumban. Vincze Ildikó vezetésével töretlenül sikeres az általános iskolai és a középiskolai korosztályt megcélzó **természettudományos szakkör**.

2015. márciusában *A fizika mindenkié programsorozat* részeként **Naprendszer-modellt** állítottunk föl az Observatóriumban, és egész napos Nap-bemutatót szerveztünk. A rendezvény igen kedvező visszajelzéseket kapott, Kovács József kollégánk bejelentkezését élőben kapcsolta az M1 televízió.

## Fejlesztések

2015 során megépítettük az Observatórium tulajdonában lévő 15 cm-es Zeiss akromát felhasználásával új, **2,5 méter hosszú bemutató távcsövünket**. A műszer a 60 cm-es tükörátmérőjű Zeiss Cassegrain-teleszkóppal egy időben használható. Ezzel a fejlesztéssel lehetővé vált, hogy

- Egyszerre **három távcsövön** keresztül tudjuk bemutatni a Holdat, bolygókat, a világűr objektumait,
- Így jelentősen **megnövekedett** az observatórium **fogadókapacitása**
- A lencsés műszer képalkotása turbulens időben is kiváló, így **szélsőségesebb időjárási viszonyok között is** tudunk csillagászati bemutatót tartani.

2015 nyarán megvalósult az Observatórium teljes gépészeti **felújítása** és a hallgatók, vendégkutatók fogadására kialakított részleg felújítása, valamint elkezdtük a **kiállítóter felújítását** (várható átadás 2016 május).

**E fejlesztéseknek köszönhetően mind a Gothard Tudománytörténeti Gyűjtemény, mind a csillagászati bemutatók helyszínéül szolgáló kupola teljesen megújult térben és tartalmában is frissített formában várhatja látogatóit.**

Szombathely, 2016. 03. 30.

Dr. Szabó M. Gyula  
igazgató

Mellékletek:

1. melléklet: Az „Ezüstbe zárt világegyetem” – Gothard Jenő legkiválóbb felvételeinek kiállítása
2. melléklet: A Gothard Observatórium látogatóstatisztikája a 2015 január -2016 március időszakban
3. melléklet: 2015 során közölt szócikkeink
4. melléklet: Tudományos eredményeink rövid összefoglalása
5. melléklet: 2015-ös hivatkozások jegyzéke

## 1. melléklet

Az „Ezüstbe zárt világegyetem” – Gothard Jenő legkiválóbb felvételeinek több helyen installálható vándorkiállítás

# 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-, ívkülési és röntgenfelvétel a századforduló élvonalbeli természettudományos kutatásainak lenyomata.



A fényképezés csillagászati alkalmazása terén elért sikereivel Gothard Jenő maradandóan beírta nevét a tudománytörténet lapjaira. Első csillagászati felvételei az 1882-es, Magyarországról részlegesként megfigyelhető napfogyatkozásról készültek. A ritka jelenséget különlegessé tette annak fotografikus észlelése, ezért nagy eseménynek számított, amelyen Kuncz Adolf tudós-tanár és Knébel Ferenc szombathelyi fotográfus is részt vett.

Asztrofotográfiával Gothard csak 2-3 évvel később kezdett el komolyabban foglalkozni, 1885-ig főleg vizuálisan észlelt. Ekkor fotografikus úton felfedezte a Lyra-gyűrűsköd (M57) központi csillagát, 1886-ban pedig a világon elsőként készített felvételt szabad szemmel nem látható üstököséről.

Az ELTE Gothard Asztrofizikai Observatórium archívumában őrzött fotólemezei főleg 1885 és az 1900-as évek eleje között készültek az égbolt legkülönfélébb 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. Gothard Jenő kiváló mérnökként nem csak használta a műszereit és eszközeit, de azokat sok esetben továbbfejlesztette vagy egyenesen ő maga építette meg.

A közel 130 éves fotólemezek óriási jelentőségűek a magyar asztrofotográfia és csillagászat történetében, ezért fontos, hogy megőrizzük azokat az utókor számára. 2014 és 2015 során egy erre a célra szolgáló professzionális szkennelést megtörtént a csillagászati fotólemezek és az egyéb anyagok tudományos célokat is kielégítő felbontású és minőségű digitalizálása, jelenleg a hatalmas anyag rendszerezése folyik.

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.

## A kiállított képek és tárgyak leírása:

01. Kiállítás bevezető kép és leírás.

02. HOLD - 1888 / MOON - 1888

Az Esők Tengerét átszelő terminátortól jobbra már nappali fényben fürdik a közel 100 km átmérőjű Kopernikusz-kráter.

Right of the terminator crossing the Mare Imbrium the crater Copernicus, nearly 100 km in diameter, is bathing in daylight.

03. SÚLYZÓ-KÖD - 1891 / DUMBELL NEBULA - 1891

Az elsőként felfedezett planetáris köd a Róka csillagképben figyelhető meg, távolsága tőlünk körülbelül 1360 fényév.

The first planetary nebula to be discovered is located in the constellation Vulpecula, at a distance of

1360 light years.

04. ÉSZAK-AMERIKA-KÖD - 1891 / NORTH AMERICA NEBULA - 1891

Emissziós köd a Hattyú csillagképben, közel a farkollához, egyben legfényesebb csillagához, a Denebhez.

An emission nebula in the constellation Cygnus, close to Deneb, the tail of the swan and its brightest star.

05. PERSEUS-IKERHALMAZ - 1891 / DOUBLE CLUSTER IN PERSEUS - 1891

Kettős nyílt csillaghalmaz a Perseus csillagképben, mindkét komponens körülbelül 7500 fényév távolságra van tőlünk.

A pair of open star clusters in the constellation Perseus, both components lie at a distance of about 7500 light years.

06. ORION-KÖD - 1891 / ORION NEBULA - 1891

A fényes emissziós köd a legközelebbi csillagkeletkezési területek egyike, szabad szemmel is látható az Orion öve alatt.

The bright emission nebula is one of the nearest starformig regions, it's visible to the naked eye below the Orion's belt.

07. LÓFEJ-KÖD - 1891 / HORSEHEAD NEBULA - 1891

A fényes csillagok alkotta háttér előtt markánsan kirajzolódó sötét porfelhő az Orion molekulafelhő-komplexben.

A dark dust cloud in front of the background of bright stars in the Orion Molecular Cloud Complex.

08. SWIFT-ÜSTÖKÖS - 1892 / COMET SWIFT - 1892

Az 1892. március 9-én felfedezett üstökös hírnevét főként a nagyon gyorsan változó csóvájának köszönhette.

The comet discovered on March 9, 1892 was to become famous because of the rapidly changing appearance of its tail.

09. ÖRVÉNY-KÖD - 1892 / WHIRLPOOL GALAXY - 1892

Aktív központi maggal rendelkező kölcsönható spirálgalaxis és kísérő galaxisa a Vadászebek csillagképben.

An interacting spiral galaxy with an active galactic nucleus and its companion in the constellation Canes Venatici.

10. ANDROMÉDA-KÖD - 1892 / ANDROMEDA GALAXY - 1892

Mintegy 2,5 millió fényéves távolságával az Androméda-köd a Tejútrendszerhez legközelebbi nagy spirálgalaxis.

With its distance of about 2,5 million light years the Andromeda Galaxy is the nearest major galaxy to the Milky Way.

11. TRIANGULUM-GALAXIS - 1892 / TRIANGULUM GALAXY - 1892

A Tejútrendszert, az Androméda-ködöt és kb. 40 kisebb galaxist magába foglaló Lokális Csoport harmadik legnagyobb tagja.

The third-largest member of the Local Group, which includes the Milky Way, the Andromeda Galaxy and about 40 smaller galaxies.

12. LYRA-GYŰRŰSKÖD - 1892 / RING NEBULA IN LYRA - 1892

Planetáris köd a Lant csillagképben, központi csillagát Gothard fedezte fel fotografikus úton 1885-ben.

Planetary nebula in the constellation Lyra, its central star was detected photographically by Gothard in 1885.

13. FIASTYÚK - 1893 / PLEIADES - 1893

A Földhöz legközelebbi nyílt csillaghalmazok egyike, fiatal, forró csillagokból áll, a Bika csillagképben látható.

One of the nearest open star clusters to Earth containing young hot stars, located in the constellation of Taurus.

#### 14. LEO-TRIPLETT - 1894 / LEO TRIPLET - 1894

A három spirálgalaxis által alkotott kis csoport az Oroszlán csillagképben látható, távolsága 35 millió fényév körüli.

The small group of three spiral galaxies located in the constellation Leo is about 35 million light years away.

#### 15. M81 ÉS M82 - 1894 / M81 AND M82 - 1894

A Bode-galaxis és a Szivar-galaxis párosa a Nagy Medve csillagképben, tőlünk mintegy 12 millió fényév távolságra.

The pair of Bode and Cigar galaxies in the constellation Ursa Major, at a distance of about 12 million light years.

#### 16. E-KÖD - 1894 / E NEBULA - 1894

A rendkívül sötét terület két por- és gázköd együttese a Sas csillagképben, körülbelül 2000 fényév távolságban.

The very dark region in the constellation Aquila consists of two dust clouds, at a distance of about 2000 light years.

#### 17. NAPFOGYATKOZÁS - 1882 / SOLAR ECLIPSE - 1882

Az 1882. május 16-i részleges napfogyatkozáskor rögzített képek Gothard Jenő első ismert csillagászati felvételei.

Photographs of the partial solar eclipse of May 16, 1882 are the first known astronomical pictures taken by Gothard.

#### 18. SZIKRAFELVÉTELEK - 1880-AS ÉVEK VÉGE / SPARK IMAGES - END OF THE 1880's

A szikrafelvételek kamera nélkül készültek, az elektromos kisülések energiáját közvetlenül rögzítették a fényérzékeny lemezek.

The spark images are generated without a camera, directly exposing photosensitive plates to brief bursts of electrical energy.

#### 19. AMERIKAI UTAZÁS - 1893 / US TRIP - 1893

1893-ban Gothard körutazást tett az Egyesült Államokban, közben rengeteg érdekes felvételt készített a hatalmas országról.

In 1893 Gothard travelled across US and took lots of interesting pictures of the mighty land during the journey.

#### 20. RÖNTGENFELVÉTELEK - 1896-1905 / X-RAY IMAGES - 1896-1905

Röntgen híres előadásának napján, 1896. január 23-án készítette Gothard első röntgenfelvételét a fizikai laboratóriumában.

Gothard took his first X-ray image in his physics lab on January 23, 1896, the same day when Röntgen held his famous lecture.

### MŰSZEREK

#### 1. Napfényképező kamera - 1882

A londoni Browning-cég által gyártott 31 mm nyílású kamera 1882-ben került a herényi obszervatóriumba. A felvevőgépet Gothard Jenő 1886-ban új pillanatzárral látta el.

#### 2. Leolvasó távcső - 1883

A herényi földmágneses megfigyelések előkészítése során a 40 mm nyílású távcsövet Gothard építette egy tervezett variáció-műszer mágneses elemei változásainak leolvasásához.

#### 3. Fényképezőgép - 1888

13 cm x 18 cm méretű lemezre dolgozó, összecukható uti fényképezőgép a Calderoni-cégtől származó kameravázhoz alkalmazott 42 mm átmérőjű Steinheil-objektívvel.

#### 4. Heliosztát - 1883

Az ógyallai obszervatóriumban készült, 1885-ben Herénybe került és 1887-ben Gothard Jenő által továbbfejlesztett, a napfényt állandó irányba vetítő, óraszerkezettel mozgatott tükörberendezés.

## 2. melléklet

### Programjaink és látogatói létszámok

Tárlatvezetés, esti észlelés előre szervezett keretek között a Gothard Obszervatóriumban

Észlelés, tárlatvezetés Óvodás csoportok	271		Ebből felnőtt	27
Észlelés, tárlatvezetés Általános iskolás csoportok	318		Ebből felnőtt	41
Észlelés, tárlatvezetés Középiskolás csoportok	354		Ebből felnőtt	52
Észlelés, tárlatvezetés Egyetemista csoportok	49			
Fizikai Mindenkié programsorozat	104		Ebből felnőtt	28
Esti észlelések	57		Ebből felnőtt	6
Látogatók	169		Ebből felnőtt	66
Csillagászati szakkör	10			
Gothard vetélkedő	41		Ebből felnőtt:	5
<b>Összesen:</b>	<b>1373</b>			

### Részleges napfogyatkozás bemutatása

Bolyai Gimnázium udvara	~1113		Ebből felnőtt	~100
Gothard Obszervatóriumban	~100		Ebből felnőtt	~50
<b>Összesen:</b>	<b>~1213</b>			

## Ingakísérlet

Fogadott osztályok

Szigetszentmiklósi Batthyány Kázmér Gimnázium 10. osztály	30 fő		
Bolyai János Ált Isk (Érd) 8.osztály	50		
Csik Ferenc Általános Iskola és Gimnázium (II. kerület)	6		
Áldás Utcai Általános Iskola (II. kerület)	30		
Komlói és pécsi vegyes diákcsoport	44		
Mozgásjavító Általános Iskola (Budapest)	8		
Kaposvári diákcsoport	30		
Alsóerdősori Bárdos Lajos Általános Iskola és Gimnázium 9.osztály	30		
Dobos C. J. Vendéglátóipari Szakközépiskola 9.osztály	30		
Első Óbudai Német Nyelvoktató Nemzetiségi Általános Iskola	22		
Budaörsi Egyes Számú Általános Iskola 7.osztály	17		
Kis János Altábornagy (ELTE gyakorló) 8.osztály	18		
Schulek Frigyes Építőipari Szakközépiskola	27		
Arany János Általános Iskola és Gimnázium	35		
Áldás Utcai Általános Iskola 6-7.osztály	45		
Virányos Általános Iskola 7-8. osztály	70		
További nem regisztrált látogatók (becslés)	~1000	Ebből felnőtt	~500
<b>Összesen</b>	<b>1492</b>		

## „Ezüstbe zárt világegyetem” fotókiállítás

Bolyai Galéria	~1113	Ebből felnőtt	~100
Nádasdy Ferenc múzeum (tervezett)	~4000	Ebből	~2000



			felnőtt	
<b>Összesen:</b>	<b>~5000</b>			

Mindösszesen: **9078 fő elérése** 2015-ben és 2016 áprilisáig, a meglévő programjainkkal

### 3. melléklet

#### Referált tudományos közlemények vezető szakfolyóiratokban 2015-ben:

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## 4. melléklet

Tudományos eredmények rövid ismertetése

### Csillagászati felmérések

A 2015-ös évben az APOGEE-1 lezárásaként (és felkészülve az APOGEE-2-re) számos publikáció született a program leírására, illetve az első tudományos eredmények ismertetésére. Az első csoportba tartozik a 12. Data Release részletes bemutatása, az APOGEE adatredukciós szoftverének leírása, a 12. Data Release APOGEE adatainak ismertetése és a csillagok fizikai paraméterei minőségének vizsgálata, valamint a H sávhoz használt vonallista elkészítése (Chojnowski et al., Overbeek et al., Cunha et al., Carlberg et al., Chiappini et al., Fleming et al., **Mészáros** et al., Zamora et al., Tayar et al., Alam et al., Hayden et al., Martig et al., Holtzman et al., Nidever et al., Shetrone et al. – **Mészáros**).

### Csillagkeletkezés és csillagfejlődés

**2015-ben publikáltuk a 10 legfényesebb gömbhalmaz** irodalomban található első konzisztens kémiai összetétel vizsgálatát az APOGEE adatait használva. Mindegyik halmazban két csillaggenerációt találtunk, amelyek különböző időben keletkeztek. A populációk kémiaiailag elkülönülnek, mert az első generációs csillagok belsejében végbemenő nukleáris fúzió megváltoztatja az összetételüket, ami a csillagok halálakor kikerül a csillagközi térbe. A második generációs csillagok pedig már a megváltozott összetételű felhőből keletkeznek (**Mészáros et al.**).

**Felfedeztünk egy különleges fedési kettőscsillagot** a Piszkéstető Obszervatórium műszereivel. A rendszer érdekessége, hogy a komponensek nagyon nagy hőmérséklet-különbségűek, ezért az objektum a jelenleg ismert összes fedési kettőscsillagnál nagyobb fényességcsökkenést mutat a fedések alatt. Az egyik komponens egy nagyon forró (55000 K) szubtörpe csillag, míg a kísérője egy hűvös (4500 K) vörös törpe, keringési periódusuk pedig 4,5 óra. A nagyon forró szubtörpe kb. 22500 K-re melegíti a vörös törpe felé néző felszínét. Az analízishez a Kanári-szigeteken működő 4 m-es William Herschel (WHT) és 10 m-es Grand Telescopio Canarias (GTC) távcsövekre nyertünk mérési időt. A szubtörpe csillag érdekessége, hogy a paraméterei alapján már nem is klasszikus szubtörpe csillag, hanem éppen összehúzódik: a szubtörpe és fehér törpe állapot között van, amelyre eddig egyetlen példát ismertünk csupán (Derekas et al. – **Derekas, Csák, Szabó**).

Közöltük a **HD 131835 porkorongos csillag** analízisét, képalkotási és spektroszkópiai módszerekkel. A rendszer különlegessége, hogy ez az ismert egyik legjobban megfigyelhető meleg másodlagos porkorong, amely **a mi Naprendszerünk kis égitest övéhez hasonló kisbolygókat, üstökösöket tartalmaz** – de a Naprendszerénél több nagyságrenddel gazdagabb övezetekben (Moór és mtsai. – **Szabó**).

Részt vettünk egy **különleges csillag felfedezésében és analízisében**. A KIC8462852 csillag fényváltozásai áthaladó objektumokra utalnak, azonban az egyedi jelenségek nem periodikusak, nagyságrendileg is változó mélységűek, eltérő lefutásúak, és gyakran egészen komplexek. Hasonló fényváltozást nem ismerünk, lényegében minden „épkézláb” magyarázatot sikerült kizárnunk. Lehetséges, hogy egy **óriási üstökősfelhő széteső üstökősei** okozzák a megfigyelt fényváltozást. (Boyajian és mtsai. – **Csák, Kovács, Szabó**)

### Stellárasztronómia

**A kanadai MOST-úrtávcsővel** egy alaplómódusban (RT Aur) és egy első felhangban (SZ Tau) pulzáló cefeida változóról **végeztünk méréseket**. Míg a csillag alaplómódusú meglehetősen pulzációja stabil, az első felhangú ciklusról ciklusra változásokat mutat, csakúgy, ahogy azt korábban a V1154 Cyg esetén kimutattuk. Mindezek arra engednek következtetni, hogy a cefeidák felhangú pulzációja kevésbé stabil mind rövid, mind hosszútávon, mint az alaplómódusú (Evans et al. – **Derekas**).

Folytattuk a **spektroszkópiai programunkat**, amelyben pulzáló csillagok körül keresünk kísérőket a GAO 50 cm-es távcsövével. A 2015-ös eredmények részben feldolgozás alatt vannak, V1344 Aql kettősségének kimutatása, valamint az AW Per és T Mon pályaparamétereinek pontosítása közlés alatt van (Cseh et al. – **Cseh, Csák, Kovács, Derekas, Szabó, Jankovics**). Nemzetközi együttműködésben (Philip A. Reed, Kutztown University) folyamatban van a V473 Lyrae Blazhko-effektust mutató cefeida

spektroszkópiai vizsgálata. Az eltérő földrajzi szélességnek köszönhetően meglehetősen hosszú észlelési adatsorainkat a **MOST űrobszervatórium fotometriai adataival egybevetve** fogjuk közölni (Molnár et al. – **Csák, Cseh, Kovács, Derekas, Jankovics**).

**Kimutattuk, hogy a V1154 Cygni csillagnak nincs kísérője.** A **Kepler-űrtávcső** látómezejében található egyetlen **cefeida** teljes, négy éves folyamatos fénygörbét analizáltuk. A korábban általunk kimutatott jelentős periódusfluktuációk mellett egy 158 napos ciklikus fluktuáció is detektálható, amely mind a periódusban, mind a fénygörbe alakjának változását jelző Fourier-paraméterekben jelen van. Új radiális sebesség-méréseket is végeztünk, amelyek pontos egyezést mutatnak a 2012-es mérésekkel. (Derekas et al. – **Derekas, Csák, Kovács, Szabó**).

### **A naprendszerek felépítése**

**Részt vettünk a Kepler űrtávcső K2 program naprendszeres munkacsoportjában,** a projektjavaslatok kidolgozásában, az objektumok pályázatában, a megfigyelésekben és a közlésben. Kihasnálva a forgó égitestek periodikus jelalakját, szimulált adatokkal előzetes becslést adtunk az elérhető határfényességre – a kapott 21,5 magnitúdós értéket a mérnöki üzemmód adatsora visszaigazolta. TNO égitestek (2002 GV31, 2007 JJ43, 2007 OR10) első űr-bázisú folyamatos fotometriáját közöltük, egyben az első alias-mentes periódusmeghatározásokat is. A **Neptunusz Nereida holdjának periódusát is kimértük, és megerősítettük az elnyúlt alakot.** További TNO-k és **száz fővbeli kisbolygó fénygörbét mértük ki,** amelyek jelenleg közlés alatt vannak (Pál et al., Szabó et al. – **Szabó**).

**Kidolgoztunk egy optimális stratégiát exoholdak vagy exobolygók gyűrűinek** megfigyelésére. A meglévő számú adatra épülő döntési lehetőségek egymásutánja (pozitív detektálás; új mérés szükséges; negatív eredmény) jól illeszkedik a CHEOPS észlelési stratégiájához. A detektálási algoritmusok továbbfejlesztett változataiban a csillag konvekciós eredetű fényváltozásából eredő zajt is figyelembe vettük, és megállapítottuk, hogy ez a detektálási küszöböt nem csökkenti, de a fals pozitívok arányát jelentősen megnöveli (Simon et al. – **Szabó**).

**Részt vettünk a HATS-6b meleg Szaturnusz exobolygó felfedezésében,** amely egy M törpe körül kering. A csillag ugyan halvány, de a cikkbeli számítások szerint a bolygó légköréről jobb jel/zaj viszonyú, K sávú transzmissziós színképet lehet készíteni, mint az eddig ismert bármiféle gázbolygóról. Részt vettünk egy empirikus modellcsalád közlésében, amivel  $M < 0,8 M_{\odot}$  fősorozati csillagok fundamentális paraméterei az eddigieknél lényegesen pontosabban becsülhetők (Hartman et al. – **Csák**).

## 5. melléklet

### 2015-ös hivatkozási adatok

2015-ben hivatkozott közlmények: 153

Ebből referált: 80

Hivatkozások: 946 (összes), 501 (független)

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