

**ACADEMIA ROMÂNĂ**  
**FILIALA CLUJ-NAPOCA**



# **ZILELE**

# **ACADEMICE**

# **CLUJENE**

**CLUJ NAPOCA IUNIE 2014**



**ACADEMIA ROMÂNĂ  
FILIALA CLUJ NAPOCA**

**ZILELE ACADEMICE CLUJENE**

IUNIE 2014

**P R O G R A M**

**ACADEMIA ROMÂNĂ – FILIALA CLUJ-NAPOCA**  
**OBSERVATORUL ASTRONOMIC CLUJ-NAPOCA**

**UNIVERSITATEA BABEȘ-BOLYAI CLUJ-NAPOCA**  
**FACULTATEA DE MATEMATICĂ ȘI INFORMATICĂ**  
**FACULTATEA DE FIZICĂ**

**Joi, 29 Mai 2014**

Observatorul Astronomic Cluj-Napoca  
Str. Cireșilor nr. 19

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**SYMPOSIUM**

**CHALLENGES IN ASTRONOMY, ASTROPHYSICS AND  
SPACE SCIENCE**

**Ora 10,00**

D. PRICOPI, Marian Doru ȘURAN, Solar-like oscillations in the red giant star KIC 3758458 observed by *Kepler*

Mirel BÎRLAN, *Physics of binary asteroids via astronomical observations*

Dan Alin NEDELICU, *Evidences for a second parent body of H chondrites*

Marian MUREȘAN, *On the optimal guidance for Lunar ascent*

*Coffee break*

**Ora 11,40**

Ferenc SZENKOVITS, *In memoriam Vasile Mioc and Rodica Roman*

Mihai BĂRBOSU, Ciprian CHIRUȚĂ, Tiberiu OPROIU, *Rein's model for the restricted three-body problem with drag*

Cristina BLAGA, *Timelike geodesics around a charged spherically symmetric dilaton black hole*

Iharka SZÜCS-CSILLIK, Rodica ROMAN<sup>†</sup>, *Generalized regularization*

Ovidiu C. FURDUI, *Numerical solar system exterior. Oort cloud dynamics*

## SYMPOSIUM

### CHALLENGES IN ASTRONOMY, ASTROPHYSICS AND SPACE SCIENCE

Ora 16,00

Tamás BORKOVITS, *Analytic Approach to ETV Analysis of Eccentric Binaries with Close Tertiaries*

Cristian Eduard RUSU, *Subaru telescope adaptive optics observations of gravitationally lensed quasars*

Dana FICUȚ-VICAȘ, Elias BRINKS, Deidre HUNTER, Bruce ELMEGREEN, Michael RUPEN, Adam LEROY, Fabian WALTER, Caroline SIMPSON and the LITTLE THINGS Team, *Two little things: DDO133 and DDO168 revealed*

Norbert MAGYAR, Alexandru MARCU, Gabriela MOCANU, *Numerical simulations of transverse coronal loop oscillations in cooling plasma*

*Coffee break*

Ora 17,40

Tibor HEGEDŰS, *Latest SDSS photometry results and experiences in Baja Observatory*

Bogdan DĂNILĂ, Gabriela MOCANU, Alexandru MARCU, *Statistical results on observed optical intra-day variability of BL Lac S5 0716+714*

Alexandru POP, Călin VAMOȘ, *Methodology for the investigation of low level signals in astronomical time series. The case of ER Vulpeculae*

Șerban ONȚANU-CRĂCIUN, *GPU-enabled simulations of stellar clustering with cold dark matter and scalar field dark matter*

Alexandru POP, Vlad TURCU, Dan MOLDOVAN, Liviu MIRCEA, *Orbital period variability of Z Draconis. Preliminary results*

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**Vineri, 30 Mai 2014**

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**SYMPOSIUM**

**CHALLENGES IN ASTRONOMY, ASTROPHYSICS AND  
SPACE SCIENCE**

**Ora 10,00**

Mihai BĂRBOSU, *Academic Programs in Astronomy: Europe vs North America*

Tibor HEGEDŰS, *New challenges in present days' astronomy: innovative educational projects in Baja Observatory*

Paul DOLEA, Vlad DASCĂL, Octavian CRISTEA, *Science camp for teenagers: an interdisciplinary education and outreach programme in the field of astronomy and space technologies*

Vlad TURCU, Liviu MIRCEA, Tiberiu OPROIU, Dan MOLDOVAN, Alexandru POP, *AMHEOS project. Reduction methods*

*Coffee break*

**Ora 11,40**

Remus BOATĂ, *A simple model based on Takagi-Sugeno fuzzy procedure for forecasting daily global solar radiation in Timișoara*

Tibor HEGEDŰS, *A new - and presently the largest known - Hungarian meteorite*

Diana CONSTANTIN, *Gravitational redshift in the Schwarzschild problem*

Nicolae Mihail TONCEA, Andrei STAN, Octavian CRISTEA, Paul DOLEA, *A progress report on developing a national space strategy in Romania*

Doina IONESCU, *The dacians and their astronomy in the spanish mythology*

**ACADEMIA ROMÂNĂ**  
COMITETUL NAȚIONAL ROMÂN DE ASTRONOMIE

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**Vineri, 30 Mai 2014, ora 16,00**

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OPEN DEBATE

**TRENDS IN  
ASTRONOMICAL RESEARCH AND EDUCATION  
IN ROMANIA**