

# 10<sup>th</sup> Hellenic Astronomical Conference

Ioannina, 5-8 September 2011

Under the Auspices of  
H.E. the President of the Hellenic Republic  
Dr. Karolos Papoulias

## Scientific Organising Committee:

N. Kylafis (Chair)  
A. Anastasiadis  
T. Apostolatos  
A. Bonanos  
C. Efthymiopoulos  
M. Metaxa  
A. Nindos  
I. Papadakis  
D. Rigopoulou  
G. Tsiropoula  
N. Vlahakis  
L. Vlahos  
A. Zezas

## Local Organising Committee:

S. Patsourakos (Chair)  
A. Nindos  
V. Ontiveros  
V. Tsikoudi

**Session 1: Sun, Planets and Interplanetary Medium**  
**Session 2: Extragalactic Astrophysics and Cosmology**  
**Session 3: Dynamical Astronomy & Relativistic  
Astrophysics**  
**Session 4: Stars, Our Galaxy and the Local Group**  
**Session 5: Education in Astronomy**

## Plenary Speakers:

**J. Binney** (Oxford University)  
**A. Coustenis** (Paris-Meudon Observatory)  
**A. Hood** (St. Andrews University)  
**T. Piran** (Hebrew University)

## Sponsored by:

**Academy of Athens (RCAAM),  
National Observatory of Athens,  
and University of Ioannina**

## Organised by:



<http://www.helas.gr/conf/2011>

## FOREWORD

Held regularly since 1993, the “Hellenic Astronomical Conference”, organized by the Hellenic Astronomical Society (Hel.A.S.), is the major scientific event of the Greek astronomical community. The Conference, which takes place every two years in a different part of Greece, typically brings together over 100 scientists with research interests in Astronomy, Astrophysics, and Space Physics. The 10<sup>th</sup> Conference of Hel.A.S. is hosted in Ioannina, between September 5 and 8, 2011.

### PLENARY SPEAKERS

**J. Binney**, Oxford University, UK  
**A. Coustenis**, Paris-Meudon Observatory, France  
**A. Hood**, University of St. Andrews, UK  
**T. Piran**, The Hebrew University, Israel

### INVITED SESSION SPEAKERS

**T. Belloni**, INAF-OAB, Italy  
**I. Dandouras**, CESR, France  
**D. Giannios**, Princeton University, USA  
**R. Korakitis**, NTUA, Greece  
**L. Moustakas**, JPL/Caltech, USA  
**P. Patsis**, RCAAM, Academy of Athens, Greece  
**T. Sarris**, Democritus University of Thrace, Greece  
**N. Stergioulas**, Aristotle University of Thessaloniki, Greece  
**K. Tziotziou**, RCAAM, Academy of Athens & National Observatory of Athens, Greece  
**C. Walker**, NOAO, USA

### SCIENTIFIC ORGANIZING COMMITTEE

**N. Kylafis**, University of Crete, Greece (Chair)  
**A. Anastasiadis**, ISARS, National Observatory of Athens, Greece  
**T. Apostolatos**, University of Athens, Greece  
**A. Bonanos**, IAA, National Observatory of Athens, Greece  
**C. Efthymiopoulos**, RCAAM, Academy of Athens, Greece  
**M. Metaxa**, Arsakeio High School, Greece  
**A. Nindos**, University of Ioannina, Greece  
**I. Papadakis**, University of Crete, Greece  
**D. Rigopoulou**, Oxford University, UK  
**G. Tsiropoula**, ISARS, National Observatory of Athens, Greece  
**N. Vlahakis**, University of Athens, Greece  
**L. Vlahos**, Aristotle University of Thessaloniki, Greece  
**A. Zezas**, University of Crete, Greece

### LOCAL ORGANIZING COMMITTEE

**S. Patsourakos**, University of Ioannina, Greece  
**A. Nindos**, University of Ioannina, Greece  
**V. Ontiveros**, University of Ioannina, Greece  
**V. Tsikoudi**, University of Ioannina, Greece

# CONFERENCE PROGRAM

## Sunday 4/9

17.00-19.00: Registration

19.30-20.30: Public outreach talk (in Greek) by A. Coustenis (Paris-Meudon Obs.) "Η εξερεύνηση του Τιτάνα και του συστήματος του Κρόνου"

21.00-23.00: Welcome Reception

## Monday 5/9

9:00-9:30: Opening Ceremony

9:30-11:00: S2, S4

11:00-11:30: **Coffee Break**

11:30-12:15: **PT1**

12:30-14:00: S2, S4

14:00-16:00: **Lunch Break**

16:00-17:00: S2, S4

17:00-17:30: **Coffee Break**

17:30-18:30: S2, S4

## Tuesday 6/9

9:30-11:00: S2, S1

11:00-11:30: **Coffee Break**

11:30-12:15: **PT2**

12:15-12:35: **"Highlight talk  
by a young astronomer"**

12:45-14:00: S1, S2

14:00-16:00: **Lunch Break**

14:00-16:00: 1<sup>st</sup> CTA-Greece  
meeting

16.00-17.00: **Coffee Break**

+ Poster viewing

17.00-19.00: **General Assembly  
of Hel.A.S.**

20:30: **Conference dinner**

## Wednesday 7/9

9:30-11:00: S1, S3

11:00-11:30: **Coffee Break**

11:30-12:15: **PT3**

12:30-14:00: S1, S3

14:00-16:00: **Lunch Break**

16.00-17.00: S1, S5

17:00-17:30: **Coffee Break**

17:30-18:30: S1, S5

## Πέμπτη 8/9

15:15-21:30: Ημερίδα για Εκπαιδευτικούς

21:30-22:30: Παρατηρήσεις με το τηλεσκόπιο.

**Plenary Talk (PT1), Monday 5/9** (Chair: N. Kylafis)

J. Binney: *Modeling the Milky Way*

**Plenary Talk (PT2), Tuesday 6/9** (Chair: A. Mastichiadis)

T. Piran: *The Origin of Cosmic Fireworks*

**Highlight talk by a young astronomer, Tuesday 6/9**

D. Emmanoulopoulos: *Lorentz-invariance violation studies with blazars: A cautionary tale*

**Plenary Talk (PT3), Wednesday 7/9** (Chair: L. Vlahos)

A. Hood: *Magnetic activity on the Sun*

**S1:** Sun, Planets, and Interplanetary Medium

**S2:** Extragalactic Astrophysics and Cosmology

**S3:** Dynamical Astronomy and Relativistic Astrophysics

**S4:** Stars, Our Galaxy and the Local Group

**S5:** Education in Astronomy

**SESSION 1: Sun, Planets and Interplanetary Medium** (Conveners: A. Anastasiadis, A. Nindos and G. Tsiropoula)

**Tuesday, 6<sup>th</sup> of September**

Chair: C. Allisandrakis

09:30-10:10	A. Coustenis (Inv)	<i>Atmospheric variations in Titan's atmosphere after one Titanian year</i>
10:10-10:30	C. Plainaki	<i>Ion sputtering and radiolysis of ice at the Galilean moons</i>
10:30-10:50	I. Contopoulos	<i>Nonlinear force-free reconstruction of the global solar magnetic field</i>
10:50-11:00		<i>Discussion</i>
11:00-11:30		<b>Coffee Break</b>
11:30-12:15		<b>Plenary Talk 2</b>
12:15-12:35		<b>"Highlight talk by a young astronomer"</b>
12:45-13:20	I. Dandouras (Inv)	<i>Two cases of atmospheric escape in the Solar System: Titan and Earth</i>
13:20-13:40	A. Katsiyannis	<i>Greek Participation to Solar Orbiter Development</i>
13:40-14:00	I. Myserlis	<i>Solar observations with a low frequency radio telescope</i>

**Wednesday, 7<sup>th</sup> of September**

Chair: L. Vlahos

09:30-10:10	K. Tziotziou (Inv)	<i>Solar chromospheric fine scale structures: dynamics and energetics</i>
10:10-10:30	I. Kontogiannis	<i>Multi-wavelengths observations of oscillatory phenomena in a solar network region and their relation to the magnetic field</i>
10:30-10:50	C. Allisandrakis	<i>Multi-wavelength Observations of a Metric Type-II Event</i>
10:50-11:00		<i>Discussion</i>
11:00-11:30		<b>Coffee Break</b>
11:30-12:15		<b>Plenary Talk 3</b>
12:30-13:10	A. Vourlidas	<i>New Views of the Solar Corona from STEREO and SDO</i>
13:10-13:30	S. Patsourakos	<i>Constraining a Model for EUV Wave Formation with SDO and STEREO Quadrature Observations</i>
13:30-13:50	C. Gontikakis	<i>Nanoflare heating of coronal loops in an active region triggered by reconnecting current sheets</i>
13:50-14:00		<i>Discussion</i>
14:00-16:00		<b>Lunch Break</b>

Chair: C. Gontikakis

16:00-16:40	T. Sarris (Inv)	<i>Solar wind influence in ULF wave activity in the magnetosphere</i>
16:40-17:00	O. Malandraki	<i>Space Weather Research at IAA/NOA: Solar Energetic Particle Investigations</i>
17:00-17:30		<b>Coffee Break</b>
17:30-17:50	I. Sandberg	<i>Monitoring solar energetic particles with an armada of European spacecraft and the new automated SEPF (Solar Energetic Proton Fluxes) Tool</i>
17:50-18:10	V. Ontiveros	<i>Arrival Times of Interplanetary CMEs and Shocks into the Earth's Vicinity: STEREO Observations and Analytical Modeling</i>

**SESSION 2: Extragalactic Astrophysics and Cosmology** (Conveners: D. Rigopoulou and N. Vlahakis)

**Monday, 5<sup>th</sup> of September**

Chair: V. Charmandaris

09:30-10:00	L. Moustakas (Inv)	<i>Strong gravitational lensing, the structure of galaxies and clusters, and why we care</i>
10:00-10:20	M. Plionis	<i>Alternative tracers to estimate the Dark Energy equation of state</i>
10:20-10:40	S. Basilakos	<i>Testing gravity at cosmological scales</i>
10:40-11:00	S. Carvalho	<i>Weak gravitational lensing as a tool for cosmology</i>
11:00-11:30		<b>Coffee Break</b>
11:30-12:15		<b>Plenary Talk 1</b>
12:30-12:50	C. Eleftheriadis	<i>Searches for Solar Axions at CERN with the CAST Telescope</i>
12:50-13:10	T. Fragos	<i>Evolution of X-ray Binaries Across Cosmic Time and Energy Feedback at High Redshift</i>

14:00-16:00

**Lunch Break**

Chair: M. Plionis

16:00-16:20	T. Bitsakis	<i>A multi-wavelength analysis of Hickson Compact Groups of galaxies</i>
16:20-16:40	V. Charmandaris	<i>Extended Infrared Emission from (U)LIRGs</i>
16:40-17:00	N. Nikoloudakis	<i>High-redshift Luminous Red Galaxies clustering analysis in SDSS Stripe82</i>
17:00-17:30		<b>Coffee Break</b>
17:30-17:50	E. Tremou	<i>An optical spectroscopic study of a LLQSOs sample and the impact of the aperture effect on its classification</i>

**Tuesday, 6<sup>th</sup> of September**

Chair: L. Moustakas

09:30-10:00	D. Giannios (Inv)	<i>Jets from stellar tidal disruption by massive black holes</i>
10:00-10:20	A. Mastichiadis	<i>The time-dependent one-zone hadronic model</i>
10:20-10:40	M. Petropoulou	<i>Signatures of particle acceleration on Gamma Ray Burst afterglow light curves</i>
11:00-11:30		<b>Coffee Break</b>
11:30-12:15		<b>Plenary Talk 2</b>
12:15-12:40		<b>"Highlight talk by a young astronomer"</b>
12:45-13:05	E. Angelakis	<i>F-GAMMA program: Unification and physical interpretation of the radio spectra variability patterns in Fermi blazars and detection radio jet emission from NLSY1 galaxies</i>
13:05-13:25	N. Gizani	<i>On the role of pc- to kpc-scale jet asymmetry and cosmic ray acceleration</i>
13:25-13:45	P. Bonfini	<i>Studying the asymmetry of the GC population of NGC 4261</i>
13:45-14:05	I. Leonidaki	<i>Revealing new optically-emitting extragalactic Supernova Remnants</i>

**Tuesday, 6<sup>th</sup> of September (14:00-16:00).**

### **1st CTA-Greece meeting**

Several Greek institutes from Athens and Thessaloniki participate in the next generation, ground based Cherenkov telescope, Cherenkov Telescope Array (CTA). The Hel.A.S conference offers an excellent opportunity to bring together, for the first time, all the involved teams in order to discuss several issues that have come up since the beginning of the collaboration. Dr. Emmanoulopoulos will present the current status of the project. He will also present a general introduction to the program, and will discuss the current developments in the work packages, funding status, and publication policies. Prof. Eleftheriadis (AUT) will then address the role of the Greek team in the CTA collaboration. A general discussion among the participants will follow. This meeting is open to all conference participants wishing to get acquainted with, and/or meet the people involved in CTA-Greece.

**SESSION 3: Dynamical Astronomy and Relativistic Astrophysics** (Conveners: T. Apostolatos and C. Efthymiopoulos)

**Wednesday, 7<sup>th</sup> of September**

Chair: A. Mastichiadis

09.30-10.00	N. Stergioulas (Inv)	<i>Numerical Simulations in Relativistic Astrophysics</i>
10.00-10.20	N. Kylafis	<i>Formation and destruction of jets in X-ray binaries</i>
10.20-10.40	K. Gourgouliatos	<i>Magnetic field structure of relativistic jets without current sheets</i>
10.40-11.00	Th. Smponias	<i>Modelling the equatorial emission in the SS433 microquasar</i>
<b>11:00-11:30</b>		<b>Coffee Break</b>
11:30-12:15		<b>Plenary Talk 3</b>
12.30-13:00	P. Patsis (Inv)	<i>Modeling the morphology of disk galaxies by means of orbital theory</i>
13:00-13:15	K. Tsiganis	<i>Origin of the orbital distribution of main-belt asteroids</i>
13:15-13:30	N. Caranicolas	<i>Periodic orbits and chaos in the restricted three-body problem with oblate primary</i>
13:30-13:45	K. Lazaridis	<i>Evidence for extreme gravitational quadrupole moment variations of PSR J2051-0827</i>
13:45-14:00	J. Antoniadis	<i>Strong-field gravity tests with binary pulsars</i>
14:00-14:15	D. Papadopoulos	<i>The influence of strong field vacuum polarization on gravitational-electromagnetic wave interaction</i>
14:15-14:35	K. Kokkotas	<i>Magnetar Dynamics and Gravitational Waves</i>

**SESSION 4: Stars, Our Galaxy and the Local Group** (Conveners: A. Bonanos and A. Zezas)

**Monday, 5<sup>th</sup> of September**

Chair: J. Binney

- 09:30-09:50 O. Dionatos *Low mass star-formation: new insights from Herschel*  
09:50-10:10 D. Polychroni *Filaments in Orion: A first look of the Integral Shaped Filament with Herschel*
- 10:10-10:30 C. Vamvatira-Nakou *The Herschel view of nebulae around evolved massive stars*  
10:30-10:50 E. Christopoulou *The first comprehensive photometric study of the overcontact binary TY Boo*
- 11:00-11:30 **Coffee Break**  
11:30-12:15 **Plenary Talk 1**  
12:30-13:00 T. Belloni (Inv) *On the path to strong gravity through timing accreting compact objects*
- 13:00-13:20 K. Gourgouliatos *Hall equilibria and stability of magnetic field structure in neutron star crusts*  
13:20-13:40 V. Antoniou *Connecting the young accreting binary population of the Magellanic Clouds with their star-formation history*  
13:40-14:00 G. Maravelias *Optical spectroscopy of Be-XRBs in the SMC*

14:00-16:00

**Lunch Break**

Chair: P. Niarchos

- 16:00-16:20 A. Bonanos *Fundamental Parameters of Four Massive Eclipsing Binaries in Westerlund1*  
16:20-16:40 A. Liakos *Close Binaries with delta Scuti components: New discoveries, analysis techniques and recent results*  
16:40-17:00 C. Siopis *Towards an Automated Processing of Gaia Eclipsing Binaries*
- 17:00-17:30 **Coffee Break**  
17:30-17:50 S. Akras *Distance mapping and the 3D structure of BD +30 3639*  
17:50-18:10 K. Zagkouris *Extreme refractive lensing in the interstellar medium*  
18:10-18:30 S. Lianou *Testing photometric metallicities with Milky Way dwarf spheroidal*

**SESSION 5: Education in Astronomy** (Conveners: L. Vlahos and M. Metaxa)

**Wednesday, 7<sup>th</sup> of September**

Chair: J. Seiradakis

- 16:00-17:00 C. E. Walker (Inv) *Astronomy Education in U.S. Secondary Schools: Current Status and Concerns vs. the Broadness and Effectiveness of Best Practices*
- 17:00-17:30 **Coffee Break**  
17:30-18:00 R. Korakitis (Inv) *Space Sciences in the classroom: Educational activities of the European Space Agency*
- 18:00-18:15 I. Starakis *Design, Implementation and Evaluation of a Teaching and Learning Sequence concerning Apparent Movement of the Moon*  
18:15-18:30 M. Metaxa *Learning about the Galaxy by constructing a Galactic Garden at school*  
18:30-18:45 S. Spanos *Centaur Chironis Calendar in our era*

**Πέμπτη, 8 Σεπτεμβρίου**

**ΗΜΕΡΙΔΑ ΓΙΑ ΕΚΠΑΙΔΕΥΤΙΚΟΥΣ**

15:15-16:00 Εγγραφή των εκπαιδευτικών

Συντονιστής: Μ. Μεταξά

16:00-16:45 Ν. Κυλάφης

*Εκροή ύλης από μαύρες τρύπες*

16:45-17:30 Π. Πάτσης

*Ο ρόλος των υπολογιστών στη σύγχρονη γαλαξιακή έρευνα*

**17:30-18:00**

**Καφές**

18:00-18:30 Ι. Παπαμαστοράκης

*Εκπαιδευτικά προγράμματα Αστεροσκοπίου Σκίνακα*

18:30-18:45 Ι. Σεραδάκης

*Εμπειρίες από την Ελληνική συμμετοχή στη Μαθητική Ολυμπιάδα αστρονομίας*

**18:45-20:45 Στρογγυλό τραπέζι: Το Νέο Σχολείο και ο ρόλος της Αστρονομίας**

Εισηγητές: Καθ.Λ. Βλάχος, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης,  
Καθ. Ι. Σεραδάκης, Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Δρ. Δ. Τσαούσης,  
Σχολικός Σύμβουλος ΠΕ4 Ν. Ιωαννίνων, Σεραφείμ Σπανός, Υπεύθυνος Ε.Κ.Φ.Ε. Ν.  
Μαγνησίας, και προσκεκλημένοι ομιλητές από τις επιτροπές του Υπουργείου Παιδείας  
για την διοργάνωση του Νέου Σχολείου.

20:45-21:30 Επισκέψεις στα Posters και την έκθεση φωτογραφίας

21:30-22:30 Παρατηρήσεις με τηλεσκόπιο (αν ο καιρός το επιτρέπει).



## **S1 POSTERS**

- S1-3** A. Anastasiadis *A wavelet spectral analysis tool for multipoint space and ground-based observations of ULF wave activity*
- S1-4** A. Anastasiadis *Enhancing space data exploitation through advanced data routing protocols*
- S1-5** A. Anastasiadis *Solar Energetic Particle Events detected by the Standard Radiation Environment Monitor (SREM) onboard INTEGRAL*
- S1-6** C. Avdellidou *Calculation of the rotational period of the "Mars crosser" asteroid 1994TE15*
- S1-7** C. Gontikakis *Study of a microflare observed with SUMER and TRACE*
- S1-8** D. Grassi *A review of infrared limb observations of tenuous atmospheres. Suggestions for future work at the Jupiter system*
- S1-9** A. Kontiza *Magnetospheric cut-off rigidity variations recorded by Neutron Monitors during the events of 8 and 10 November 2004*
- S1-10** I. Kontogiannis *Study of spicules observed in the CaII H and Ha lines with Hinode/SOT*
- S1-11** A. Kouloumvakos *Radio Emission Associated with Solar Energetic Particle Events*
- S1-12** A. Kouloumvakos *Type II Radio Emission from Shock Formation In The Low Corona on 13-Jun-2010: Combined Observations from the ARTEMIS-IV Radiospectrograph and SDO/AIA*
- S1-14** D. Mislis *The Photometric Software for Transits (PhoS-T)*
- S1-15** A. Papaioannou *Solar Energetic Particles (SEPs) on a heliospheric scale ñ an attempt to compile the complete Ulysses event list over solar cycle 23*
- S1-16** C. Plainaki *Modeling ground level enhancements of solar cosmic rays*
- S1-17** A. Solomonidou *Potentially active regions on Titan: Application of PCA to Cassini/VIMS data and atmospheric subtraction*
- S1-18** I.M. Strikis *Coronal temperature during total solar eclipses at the extended solar minimum of solar cycle 23*
- S1-19** K. Tsinganos *STEREO and SDO observations of several solar jets*
- S1-20** P. Syntelis *On the initiation of Coronal Mass Ejections observed by STEREO/EUVI*
- S1-21** P. Syntelis *On the shape of active region coronal loops observed by Hinode/EIS*

## **S2 POSTERS**

- S2-1** N. Gizani *Alternative Astronomical FITS imaging*
- S2-5** K. Moraitis *Blazar variability patterns*
- S2-6** K. Sapountzis *Steady-state rarefaction waves in magnetized flows and their application to gamma-ray burst outflows*
- S2-7** C. Siopis *Survival of Satellite Galaxies in Minor Mergers*
- S2-8** P. Tzeferacos *PLUTO code for computational Astrophysics: News & Developments*
- S2-9** E. Vardoulaki *Stellar luminosities and radio structures of radio sources*
- S2-10** G. Vasilopoulos *Classification of X-ray sources in the direction of M31*

## **S3 POSTERS**

- S3-1** N. Caranicolas *Order and chaos in a triaxial galaxy model with a dark halo component*
- S3-2** N. Georgakarakos *The dependence of the stability of hierarchical triple systems on the orbital inclination: preliminary results*
- S3-3** V. Geroyannis *Complex-plane strategy: application to astrophysical problems*
- S3-4** T. Kalvouridis *On the dynamics of a small body in a post Newtonian potential field created by a regular polygon formation of N bodies*
- S3-5** K. Papadakis *Families of Periodic Orbits in the Sun - Jupiter - Trojan Asteroid System*

#### **S4 POSTERS**

- S3-1** S. Akras *3-D Modeling of the collimated outflows of M1-32 and M2-42*
- S4-2** P. Boumis *Deep optical observations and study of the VRO supernova remnant*
- S4-3** E. Christopoulou *The first comprehensive photometric study of the overcontact binary TY Boo*
- S4-4** M.E. Contadakis *Observation of transient high frequency optical oscillations on three week flares of the red dwarf EV Lac*
- S4-5** M.E. Contadakis *Transient high frequency optical oscillations on a week flare of the red dwarf UV Cet*
- S4-6** I. Contopoulos *Towards a Realistic Pulsar Magnetosphere*
- S4-8** C. Goudis *First Images from the Aristarchos Telescope*
- S4-9** P. Ioannidis *Planetary existence around M type main sequence stars*
- S4-10** P. Ioannidis *Survey for variable stars and exoplanet transits from Holomon Astronomical Station*
- S4-11** I. Kamenidis *The contact system DF Hya revisited*
- S4-13** P. Niarchos *Statistical properties of exoplanets: an update from recent results*
- S4-14** I. Nikolaou *Time scale variation of MgII resonance lines of HD 41335 in UV region.*
- S4-15** A. Papageorgiou *CCD photometric study of the misclassified binary system V380 Cas*
- S4-16** D. Stathopoulos *Time scale variations of the physical parameters of the Si IV resonance lines in the case of the Be star HD 50138*
- S4-17** A. Strantzalis *Time scale variation of NV resonance line profiles of HD203064*
- S4-18** A. Tsatsi *Time scale variations of the CIV resonance lines in HD 24534*

#### **S5 POSTERS**

- S5-1** T. Dallas *The Discovery of Neptune as a Case Against Strong Popperian Falcificationism*
- S5-2** A. Papalambrou *A method for conducting dark sky surveys and light pollution monitoring with the contribution of amateur astronomers and students*
- S5-3** C. Avdellidou *Aristotle University Astronomical Station at Mt.Holomon*
- S5-4** A. N. Mathaiou *Astronomical Activities for Students*
- S5-5** T. Pierratos *Teaching frontline astronomy in upper secondary education*
- S5-6** D. Michail *The population of students that choose Astronomy as a subject at the 2nd class of Lyceoum*
- S5-7** D. Michail *Perceptions and Proposals of students who choose Astronomy as a subject at school, concerning the way that Astronomy is taught*

## CONFERENCE PARTICIPANTS

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