12th Hellenic Astronomical Conference
Aristotle University Research Dissemination Center
Thessaloniki, June 28 – July 2, 2015

Scientific Program

SOC: L. Vlahos (chair), A. Bonanos, M. Georgoulis, S. Kazantzidis, K. Kokkotas, M. Plionis, P. Reig, D. Rigopoulou, M. Trichas, K. Tsiganis, A. Vourlidas, E. Xilouris

LOC: L. Vlahos (chair), K. Tsiganis, C. Avdellidou, E. Fountouki, P. Ioannidis, N. Kallinikos, Th. Pisokas, A. Toliou

ACADEMY OF ATHENS

ΔΗΜΟΣ ΘΕΣΣΑΛΟΝΙΚΗΣ

EΣΤΙΑ

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## Program Outline

<table>
<thead>
<tr>
<th>Sunday (28/6)</th>
<th>Venue: Thessaloniki City Hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.30–20.00</td>
<td>Registration</td>
</tr>
<tr>
<td>20.00–20.15</td>
<td>Opening Addresses</td>
</tr>
<tr>
<td>20.15–21.00</td>
<td><strong>Public Outreach Talk</strong></td>
</tr>
<tr>
<td></td>
<td><em>(S. Krimigis)</em></td>
</tr>
<tr>
<td>21.00</td>
<td>Welcome Reception</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monday (29/6)</th>
<th>Venue: KEDEA Bld.</th>
</tr>
</thead>
<tbody>
<tr>
<td>09.00-9.20</td>
<td>Opening addresses</td>
</tr>
<tr>
<td>09.20-11.10</td>
<td>Sessions S1 // S2</td>
</tr>
<tr>
<td>11.10-11.30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11.30-12.15</td>
<td>PT1 (M. McCaughrean)</td>
</tr>
<tr>
<td>12.20-14.00</td>
<td>S1 // S2</td>
</tr>
<tr>
<td>14.00-15.00</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>15.00-15.30</td>
<td><strong>Highlight Talk by a Young Astronomer</strong> <em>(D. Giannios)</em></td>
</tr>
<tr>
<td>15.30-17.10</td>
<td>S1 // S2</td>
</tr>
<tr>
<td>17.10-17.30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>17.30-21.30</td>
<td><strong>Special Session: Identifying Greece's prospects in Space</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tuesday (30/6)</th>
<th>Venue: KEDEA Bld.</th>
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<tbody>
<tr>
<td>09.20-11.10</td>
<td>S1 // S2</td>
</tr>
<tr>
<td>11.10-11.30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11.30-12.15</td>
<td>PT2 (D. Elbaz)</td>
</tr>
<tr>
<td>12.20-14.00</td>
<td>S1 // S2</td>
</tr>
<tr>
<td>14.00-15.00</td>
<td>Lunch Break &amp; Graduate Students Young PhDs reception</td>
</tr>
<tr>
<td>15.00-15.30</td>
<td><strong>Best PhD Prize Talk</strong> <em>(M. Petropoulou)</em></td>
</tr>
<tr>
<td>15.30-17.10</td>
<td>S1 // S2</td>
</tr>
<tr>
<td>17.20-17.40</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>17.40-19.00</td>
<td><strong>General Assembly of Hel.A.S.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wednesday (1/7)</th>
<th>Venue: KEDEA Bld.</th>
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</thead>
<tbody>
<tr>
<td>09.20-11.10</td>
<td>S4 // S2</td>
</tr>
<tr>
<td>11.10-11.30</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11.30-12.15</td>
<td>PT3 (A. Morbidelli)</td>
</tr>
<tr>
<td>12.20-13.50</td>
<td>S4 // S1</td>
</tr>
<tr>
<td>14.00-15.00</td>
<td>Lunch Break</td>
</tr>
<tr>
<td>15.00-15.45</td>
<td>PT4 (P. Kalas)</td>
</tr>
<tr>
<td>15.50-17.20</td>
<td>S4 // S3</td>
</tr>
<tr>
<td>19.00</td>
<td><strong>Archaeological Museum Guided Tour</strong></td>
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<td>20.00</td>
<td><strong>Conference Dinner</strong></td>
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<tr>
<th>Thursday (2/7)</th>
<th>Venue: KEDEA Bld.</th>
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<tbody>
<tr>
<td>09.30-11.00</td>
<td>S3 // S4</td>
</tr>
<tr>
<td>11.00-11.20</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>11.20-12.05</td>
<td>PT5 (S. Capozziello)</td>
</tr>
<tr>
<td>12.10-13.40</td>
<td>S3 // S4</td>
</tr>
<tr>
<td>Closing Lunch</td>
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</tbody>
</table>

### Legend

- **PT**: Plenary Talk
- **S1**: Heliophysics and The Solar System
- **S2**: Extragalactic Astronomy and Astrophysics
- **S3**: Cosmology and Relativistic Astrophysics
- **S4**: Stars, Planets and the Interstellar Medium

* Lunch breaks will take place at KEDEA (buffet lunch offered to participants)

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**Best PhD Prize Talk**

"Exploring the properties of leptohadronic plasmas: from theory to observations"

(M. Petropoulou, Purdue University, USA)

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**Highlight Talk by a Young Astronomer**

"Large jets from small-scale magnetic fields"

(D. Giannios, Purdue University, USA)
# Oral Presentations

## Session 1: Heliophysics and the Solar System
Convenors: M. Georgoulis and K. Tsiganis

### Monday, June 29th

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>09.20-09.50</td>
<td>Th. Sarris</td>
<td>&quot;Modeling populations of energetic particles in the radiation belts through data assimilation models using novel estimates of the radial diffusion coefficients &quot; (Invited)</td>
</tr>
<tr>
<td>09.50-10.10</td>
<td>C. Tsironis</td>
<td>&quot;Modeling of plasma dynamics in the inner geospace during enhanced magnetospheric activity&quot;</td>
</tr>
<tr>
<td>10.10-10.30</td>
<td>C. Katsavrias</td>
<td>&quot;Combined Effects of Concurrent Pc5 and Chorus Waves on Relativistic Electron Dynamics&quot;</td>
</tr>
<tr>
<td>10.30-10.50</td>
<td>S. Dimitrakoudis</td>
<td>&quot;ULF wave radial diffusion in the radiation belts as determined through a multi-parameter study&quot;</td>
</tr>
<tr>
<td>10.50-11.10</td>
<td>D. Sarafopoulos</td>
<td>&quot;Anatomy of the Pulsating Double Layer Source in the Earth's Magnetotail&quot;</td>
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<tr>
<td>11.10-11.30</td>
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<td>Plenary Talk 1:</td>
<td>&quot;Rosetta: to catch a comet!&quot; (M. McCaughrean)</td>
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<tr>
<td>12.20-12.40</td>
<td>K. Tsiganis</td>
<td>&quot;The AIDA mission to the binary asteroid Didymos&quot;</td>
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<tr>
<td>12.40-13.00</td>
<td>K. Dialynas</td>
<td>&quot;On the origin of the 5-55 keV Heliosphere ENAs using Cassini/INCA measurements&quot;</td>
</tr>
<tr>
<td>13.00-13.20</td>
<td>S.-A. Menesidou</td>
<td>&quot;Correlation between CME-related strong geomagnetic storms, SEP and Earth's surface temperature in north-east USA: 1997-2015&quot;</td>
</tr>
<tr>
<td>13.40-14.00</td>
<td>V. Tritakis</td>
<td>&quot;Preliminary Measurements of Schumann's Resonances (SR) in the Greek Area&quot;</td>
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<tr>
<td>14.00-15.00</td>
<td>Lunch Break</td>
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</tr>
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<td>15.00-15.30</td>
<td>&quot;Highlight Talk by a Young Astronomer&quot;: &quot;Large jets from small-scale magnetic fields&quot; (D. Giannios)</td>
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<tr>
<td>15.30-15.50</td>
<td>V. Archontis</td>
<td>&quot;Nanoflares, avalanches and heating of the solar corona.&quot;</td>
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<tr>
<td>15.50-16.10</td>
<td>L. Vlahos</td>
<td>&quot;Coronal heating from explosive events: A kinetic approach&quot;</td>
</tr>
<tr>
<td>16.10-16.30</td>
<td>I. Kontogiannis</td>
<td>&quot;Probing the quiet Sun structure and dynamics with ground and space based instruments&quot;</td>
</tr>
<tr>
<td>16.30-16.50</td>
<td>H.-S. Park</td>
<td>&quot;A granule seen in the far wings of the H-alpha line: exceptional darkening before fragmentation&quot;</td>
</tr>
</tbody>
</table>
Tuesday, June 30th

Chair: A. Nindos

09.50-10.10  A. Vourlidas: “The Science Case for a Mission to the Sun-Earth L5: An Ideal Research-to-Operations Space Weather Platform”
10.30-10.50  A. Anastasiadis: “The Forecasting Solar Particle Events and Flares (FORSPEF) Tool”
10.50-11.10  A. Kouloumvakos: “Properties of solar energetic particle events inferred from their associated radio emission”

11.10-11.30  Coffee Break
11.30-12.15  Plenary Talk 2: “Cosmic galaxy evolution: strengths and weaknesses of an emerging new paradigm” (D. Elbaz)

Chair: I. Daglis

12.20-12.40  S. Patsourakos: “A Helicity-based Method to Infer the Near-Sun Magnetic Field of Coronal Mass Ejections: Parametric Study and Comparison with Observations at 1 AU”
13.00-13.20  P. Syntelis: “The nature of recurrent 3D CME-like eruptions in active regions”
13.40-14.00  E. Nikou: “Spatial correlation of solar flares and coronal mass ejections”

14.00-15.00  Lunch Break & “Graduate Students and Young PhDs reception”
15.00-15.30  "Best PhD Prize" Talk: “Exploring the properties of leptohadronic plasmas: from theory to observations” (M. Petropoulou)

Chair: A. Vourlidas

15.50-16.10  K. Tziotziou: “Magnetic energy and helicity budgets of solar quiet regions and their role in fine structure dynamics”
16.10-16.30  K. Moraitis: “Evolution of magnetic helicity and free energy in NOAA AR 11429 as inferred by different methodologies”
16.30-16.50  H. Isliker: “Particle acceleration and heating in regions of magnetic flux emergence: a statistical approach using test-particle- and MHD-simulations”
16.50-17.10  G. Pavlos: “The applications of Complexity Theory and Tsallis Non-extensive Statistics at Space Plasma Dynamics”

Wednesday, July 1st

11.30-12.15  Plenary Talk 3: “Formation and evolution of planetary systems: what is generic and what is special in the history of our Solar System?” (A. Morbidelli)
Chair: K. Tsiganis

12.20-12.50 C. Efthymiopoulos: "Theory and applications of hyperbolic invariant manifolds in astrodynamics" (Invited)


13.10-13.30 G. Tsirvoulis: "Dynamical characterization of the Hoffmeister asteroid family"

13.30-13.50 Ch. Avdellidou: "Survival of the impactor during hypervelocity collisions: An analogue for icy bodies"

14.00-15.00 Lunch Break
Session 2: Extragalactic Astronomy and Astrophysics  
Convenors: S. Kazantzidis and E. Xilouris  

Monday, June 29th  

Chair: A. Georgakakis  

09.20-09.50  
G. Magdis: “Tracing the evolving interstellar medium of star forming galaxies over the last 10 billion years” (Invited)  

09.50-10.10  
I. Leonidaki: “Probing the Physical Conditions of Dense Molecular Gas in ULIRGs with LVG modelling”  

10.10-10.30  
S. Lianou: “Gas, Dust and Stars in Early-Type Galaxies”  

10.30-10.50  
A. Maragkoudakis: “Probing the AGN - Star formation connection through the Lens of the Star Formation Reference Survey (SFRS)”  

10.50-11.10  
N. Christopher: “Are [CII] 158um Broad-line components of local ULIRGs related to the presence of molecular outflows?”  

11.10-11.30  
Coffee Break  

11.30-12.15  
Plenary Talk 1: “Rosetta: to catch a comet!” (M. McCaughrean)  

12.20-12.40  
I. Myserlis: “Physics of extragalactic plasma elements through high cadence, multi-frequency linear and circular radio polarization monitoring”  

12.40-13.00  
N. Vlahakis: “Jet-Environment Interactions”  

13.00-13.20  
M. Georganopoulos: “The large scale jets of quasars: 100 TeV accelerators lossy pipelines”  

13.20-13.40  
E. Meyer: “The New Proper Motions Frontier: Recent Discoveries on AGN Jets with HST”  

13.40-14.00  
I. Liodakis: “Population Statistics of Beamed Sources”  

14.00-15.00  
Lunch Break  

15.00-15.30  
Highlight Talk by a Young Astronomer: “Large jets from small-scale magnetic fields” (D. Giannios)  

Chair: I. Papadakis  

15.30-15.50  
P. Patsis: “The importance of inner boxiness for understanding barred galaxies Dynamics”  

15.50-16.10  
M. Harsoula: “Convergence regions of the Moser normal forms and the structure of chaos”  

16.10-16.30  
I. Contopoulos: “Magnetism along Spin”  

16.30-16.50  
M. Papastergis: “Too few and too light? Testing LCDM cosmology with field dwarf galaxies”  

16.50-17.10  
S. Sanidas: “DRAGNET: A high-speed, wide-angle radio camera for LOFAR”  

Tuesday, June 30th  

Chair: G. Magdis  

09.20-09.50  
I. Papadakis: “X-ray reverberation studies of Active Galactic Nuclei” (Invited)  

09.50-10.10  
K. Anastasopoulos: “A deep Chandra observation of the interacting star forming galaxy Arp299”  

10.10-10.30  
A. Epitropakis: “The "iron-line/continuum" time-lags in AGN”  

10.30-10.50  
V. Antoniou: “First results from the 1.1 Ms Chandra X-ray Visionary Program of the Small Magellanic Cloud”
<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</tr>
</thead>
<tbody>
<tr>
<td>10.50-11.10</td>
<td>A. Mastichiadis</td>
<td>“Variability signatures in the context of the one-zone hadronic model for blazars and GRBs”</td>
</tr>
<tr>
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<td></td>
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</tr>
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<td>V. Charmandaris</td>
<td>“Constraining the Properties of AGN host galaxies with Spectral Energy Distribution modeling”</td>
</tr>
<tr>
<td>12.40-13.00</td>
<td>E. Hatziminaoglou</td>
<td>“A complete census of mid-infrared spectral features in AGN”</td>
</tr>
<tr>
<td>13.00-13.20</td>
<td>A. Psychogios</td>
<td>“Non-parametric morphological classification of LIRGS”</td>
</tr>
<tr>
<td>13.20-13.40</td>
<td>E. Vardoulaki</td>
<td>“Spatial variations in the IR/radio correlation in Luminous Infrared Galaxies”</td>
</tr>
<tr>
<td>13.40-14.00</td>
<td>T. Diaz-Santos</td>
<td>“ISM Properties of Cold and Warm local LIRGs”</td>
</tr>
<tr>
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</tbody>
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**Chair:** V. Pavlidou

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<thead>
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</thead>
<tbody>
<tr>
<td>15.30-16.00</td>
<td>A. Georgakakis</td>
<td>“The formation of supermassive black holes accross cosmic time” (Invited)</td>
</tr>
<tr>
<td>16.00-16.20</td>
<td>D. Emmanoulopoulos</td>
<td>“Unveiling the behaviour of matter around black holes”</td>
</tr>
<tr>
<td>16.20-16.40</td>
<td>E. Lefa</td>
<td>“Modeling the AGN X-ray spectra with Monte Carlo simulations: the case of torii with density gradients”</td>
</tr>
<tr>
<td>16.40-17.00</td>
<td>M. Vika</td>
<td>“The physical properties of local galaxies with Spitzer mid-IR spectra: UV to infrared modelling”</td>
</tr>
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**Wednesday, July 1st**

**Chair:** P. Patsis

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
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</tr>
</thead>
<tbody>
<tr>
<td>09.20-09.50</td>
<td>V. Pavlidou</td>
<td>“RoboPol: First season rotations of optical polarization plane in blazars” (Invited)</td>
</tr>
<tr>
<td>09.50-10.10</td>
<td>E. Kalfountzou</td>
<td>“Unveiling the role of radio jets to the AGN/Star-formation connection”</td>
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<tr>
<td>10.10-10.30</td>
<td>K. Dasyra</td>
<td>“A radio jet drives a molecular &amp; atomic gas outflow in multiple regions within 1 kpc^2 of the nucleus of IC5063”</td>
</tr>
<tr>
<td>10.30-10.50</td>
<td>K. Markakis</td>
<td>“Subaru and e-Merlin observations of NGC3718. Diaries of a supermassive black hole recoil?”</td>
</tr>
</tbody>
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**Coffee Break**
Session 3: Cosmology and Relativistic Astrophysics  
Convenors: K. Kokkotas and M. Plionis  

**Wednesday, July 1st**

<table>
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<tbody>
<tr>
<td>14.00-15.00</td>
<td>Lunch Break</td>
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<tr>
<td>15.00-15.45</td>
<td>Plenary Talk 4: “Ex Imago Mundi: The current scientific revolution from imaging exoplanets” (P. Kalas)</td>
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<tr>
<td><strong>Chair:</strong></td>
<td>S. Capozziello</td>
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<td>15.50-16.20</td>
<td>K. Glampedakis: “Neutron stars: cosmic laboratories of gravity and dense matter” (Invited)</td>
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<tr>
<td>16.40-17.00</td>
<td>E. Koutsantoniou: “Black holes, radiation and the accretion disk”</td>
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**Thursday, July 2nd**

<table>
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<tr>
<td><strong>Chair:</strong></td>
<td>N. Kylafis</td>
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<tr>
<td>09.30-10.00</td>
<td>T. Apostolatos: “Neutron stars: Are they bald like black holes” (Invited)</td>
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<tr>
<td>10.00-10.20</td>
<td>A. Bauswein: “Inferring neutron-star properties from the gravitational-wave emission of binary mergers”</td>
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<tr>
<td>10.20-10.40</td>
<td>A. Manousakis: “Relativistic simulations of oscillating slender torus”</td>
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<td>10.40-11.00</td>
<td>K. Gourgouliatos: “Magnetic Field Evolution in Neutron Star Crusts through 3-D Simulations”</td>
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<td>11.00-11.20</td>
<td>Coffee Break</td>
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<td>11.20-12.05</td>
<td>Plenary Talk 5: “Stellar Structures in Extended Gravity” (S. Capozziello)</td>
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<td><strong>Chair:</strong></td>
<td>M. Plionis</td>
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<tr>
<td>12.10-12.40</td>
<td>S. Basilakos: “Geometrodynamics in Cosmology: from Planck to modified gravity” (Invited)</td>
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<td>12.40-13.00</td>
<td>S. Sanidas: “New Constraints of the cosmic string tension from EPTA”</td>
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<tr>
<td>13.00-13.20</td>
<td>D. Papadopoulos: “Frequency spectrum of radiation from accelerated charged particle in a magnetized curved space time”</td>
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*Closing Lunch*
Session 4: Stars, Planets and the Interstellar Medium
Convenors: A. Bonanos and P. Reig

Wednesday, July 1st

Chair: P. Reig

09.20-09.50  A. Zezas: “The link between X-ray binaries and stellar populations in galaxies” (Invited)

09.50-10.10  G. Vasilopoulos: “BeXRBs in the Large Magellanic Cloud”

10.10-10.30  S. Williams: “Investigating Massive Stars in the Galaxy M83”

10.30-10.50  N. Britavskiy: “Identification of red supergiants in the Local Group with mid-IR photometry”

10.50-11.10  G. Maravelias: “Tracing the disks around B[e] supergiants in the Magellanic Clouds”

11.10-11.30  Coffee Break

11.30-12.15  Plenary Talk 3: “Formation and evolution of planetary systems: what is generic and what is special in the history of our Solar System?” (A. Morbidelli)

Chair: A. Udalski

12.20-12.40  A. Manousakis: “Stellar wind accretion onto High Mass X-ray Binaries”

12.40-13.00  N. Nanouris: “Twin binaries as a laboratory for testing wind-driven mass loss theories”

13.00-13.20  E. Christopoulou: “Seeing double or triple with Aristarchos telescope?”


14.00-15.00  Lunch Break

15.00-15.45  Plenary Talk 4: “Ex Imago Mundi: The current scientific revolution from imaging exoplanets” (P. Kalas)

Chair: A. Zezas

15.50-16.10  M. Kopsacheili: “New supernova remnant candidates in nearby galaxies in the Southern hemisphere”

16.10-16.30  A. Chiotellis: “Fast and furious: Modeling the cometary structure of the planetary nebula HFG1”

16.30-16.50  K. Tassis: “Filaments and magnetic fields as probes of the early stages of star formation”

16.50-17.10  A. Tritsis: “Interstellar chemistry as a diagnostic in the quest for the true shape of prestellar cores”

Thursday, July 2nd

Chair: M.E. Contadakis

09.30-10.00  A. Udalski: “OGLE-IV the Largest Sky Variability Survey” (Invited)

10.00-10.20  P. Ioannidis: “Stellar spots and Transit Timing Variations”

10.20-10.40  A. Tsiaras: “Revealing the atmospheric composition of transiting extra-solar planets with HST/WFC3 spatial scanning”

11.00-11.20  Coffee Break
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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.20-12.05</td>
<td>Plenary Talk 5: “Stellar Structures in Extended Gravity” (S. Capozziello)</td>
<td></td>
</tr>
<tr>
<td>12.10-12.30</td>
<td>N. Georgakarakos</td>
<td>“Analytic orbit propagation for transiting circumbinary planets”</td>
</tr>
<tr>
<td>12.30-12.50</td>
<td>G. Voyatzis</td>
<td>“Orbits of long-term stability in three-planet systems”</td>
</tr>
<tr>
<td>12.50-13.10</td>
<td>K. Antoniadou</td>
<td>“Highly eccentric exoplanets trapped in mean-motion resonances”</td>
</tr>
</tbody>
</table>

*Closing Lunch*
Special Session: Identifying Greece's prospects in Space
Convenors: A. Vourlidas (Chair), D. Rigopoulou and M. Trichas

Monday, June 29, 17.30-21.30

This session will be staging an open discussion between the Greek astronomy community, local space industry and government representatives. The session consists of a series of short introductory talks followed by a panel discussion and audience Q&A. The aims are: (1) Inform the Greek astronomy community about the ESA Science and Technology program and ways to get involved. (2) Present the current status of the Greek space program and space industry. (3) Discuss ways forward for a continuous presence of Greece in ESA space missions. Discussions may continue in splinter sessions.

Program

**INTRODUCTION**

17.30-17.45  **A.Vourlidas:** "Why and How to Get Involved in a Space Science Mission"
17.45-18.00  **M. Trichas:** "A Large System Integrator point of view. Future Planned missions, industrial opportunities for Greek Involvement"
18.00-18.15  **I. Daglis:** "Greece and ESA Space Missions: The ESA/Council view"
18.15-18.30  **M. Georgoulis:** "Greece and ESA's Science Program Committee: National Involvement"

**CURRENT STATUS**

18.30-18.45  **U. Becker (ESA):** "ESA plans and the Greek involvement so far"
18.45-19.00  **S. Georgatos (Gvt):** "Government Plans for Greece's Technological Presence in ESA Missions"
19.00-19.15  **A. Narlis (EAB):** "Space Activities of the Greek Industry: Key Players"
19.15-19.30  **V. Makios (Corallia):** "Space Activities of the Greek Industry: SME Capabilities & Clustering"
19.30-19.45  **K. Tsinganos / A. Paschalis / Th. Sarris:** "Science Hardware/Software Capabilities in Greece"
19.45-20.00  **H. Kontoes:** "Greece’s participation in the 1st H2020 Space call"
20.00-20.15  **I. Georgantopoulos:** "X-ray Astronomy with the support of EU and ESA projects"

**FUTURE**

20.15-20.30  **A. Anastasiadis:** "The Case for a Greek Space Committee"

20.30-21.30  **Panel Discussion: “Greek Space Strategy”**  (Coordinator: A. Vourlidas)

Panelists:
Government, Industry, Science H/W, Academia
**Poster Presentations**

**Session 1: Heliophysics and the Solar System**

S1.01 **Anagnostopoulos, G.** The quasi-perpendicular MHD shock as a quasi-trapping region of downstream energetic particles

S1.02 **Anagnostopoulos, G.** Space based observations of electromagnetic signals in the topside Ionosphere before the M6.9 Andravidia Earthquake (February 14, 2008)

S1.03 **Anagnostopoulos, G.** Space weather research and applications to Seismology, Meteorology, Communications and Medicine in Greece

S1.04 **Chnitzoglou, G.** Investigation of a failed Filament Eruption During the VAULT2.0 Campaign Observations

S1.05 **Georgoulis, M.** Physics of a Critical Scaling in Solar Magnetism

S1.06 **Giakoumogiannaki, C.** Geoeffectiveness of SIR/CIR and ICME driven disturbances during Solar Cycle 23

S1.07 **Hillaris, A.** The Unusual Interplanetary Type IV Burst of 2002 May 18-23

S1.08 **Kalvouridis, T.** The Copenhagen case of the R3BP with a Manev-type quasi-homogeneous potential

S1.09 **Kontogiannis, I.** A new space weather facility at the National Observatory of Athens in the framework of the PROTEAS project

S1.10 **Kouloumvakos, A.** Multi-viewpoint observations of energetic proton release in a major SEP event: EUV waves and white-light shock signatures

S1.11 **Koumantos, P.** On Solutions of the Navier-Stokes-Maxwell Equations in MHD

S1.12 **Lingri, D.** Galactic cosmic ray spectrum of the Forbush decreases of March 7, 2012

S1.13 **Mavromichalaki, H.** Hysteresis effect of the cosmic ray intensity of 10 GV

S1.14 **Mavromichalaki, H.** The extended geomagnetic storm of March 2015

S1.15 **Papadakis, K.** 3D Asymmetric Periodic Orbits in the Sun-Jupiter-Trojan Asteroid-Spacecraft System

S1.16 **Papadakis, K.** Families of 3D Periodic Orbits in the Photogravitational Restricted Four-Body Problem

S1.17 **Papadimitriou, C.** ULF wave power features in the topside ionosphere revealed by Swarm observations

S1.18 **Platanos, I.-D.** Long-term variation of the barometric coefficient of the neutron component of cosmic rays

S1.19 **Sarafopoulos, D.** What does determine the polarity of core in Magnetic Flux Rope structures of the Earth's Magnetotail

S1.20 **Seiradakis, I.** Radio Observations of the March 20, 2015 Solar Eclipse in Thessaloniki

S1.21 **Syntelis, P.** Spectroscopic observations of the pre-eruptive configuration prior to the ejection of two CMEs from Active Region NOAA 11429

S1.22 **Syntelis, P.** Non-twisted flux tube emergence and dynamics

S1.23 **Tezari, A.** Cosmic ray diurnal anisotropy during different phases of the solar cycles 23 and 24

S1.24 **Tsironis, C.** Analysis and interpretation of ion injections into the ring current during magnetospheric substorms

S1.25 **Vlahos, L.** Fermi acceleration models for weakly and strongly turbulent plasmas

S1.26 **Zacharegkas, G.** Electron acceleration by Langmuir waves in weakly and strongly turbulent plasma
## Session 2: Extragalactic Astronomy and Astrophysics

<table>
<thead>
<tr>
<th>Session 2.01</th>
<th>Antoniou, V.</th>
<th>The link between young X-ray binaries and star formation in our nearest low-metallicity star-forming galaxy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 2.02</td>
<td>Gazeas, K.</td>
<td>Multi-wavelength monitoring of the highly active blazar Mrk 421. Investigating the high vs. low energy correlated variability</td>
</tr>
<tr>
<td>Session 2.03</td>
<td>Gazeas, K.</td>
<td>The robotic and remotely controlled telescope at the University of Athens Observatory</td>
</tr>
<tr>
<td>Session 2.04</td>
<td>Katsanikas, M.</td>
<td>Complex Instability and Hopf Bifurcation in a 3D Galactic Potential</td>
</tr>
<tr>
<td>Session 2.05</td>
<td>Katsanikas, M.</td>
<td>The Cosmic Battery in Accretion Discs</td>
</tr>
<tr>
<td>Session 2.06</td>
<td>Kouroumpatzakis, K.</td>
<td>BPT diagrams: The far-IR properties of the missing population</td>
</tr>
<tr>
<td>Session 2.07</td>
<td>Lianou, S.</td>
<td>Testing the Modified Lognormal Probability Distribution with Young Stellar Clusters</td>
</tr>
<tr>
<td>Session 2.08</td>
<td>Makridou, A.</td>
<td>Galaxy clusters and large scale structures formation using Cellular Automata models</td>
</tr>
<tr>
<td>Session 2.09</td>
<td>Markakis, K.</td>
<td>Jet-induced star formation in Cen A? Probing the infrared luminous stars with SUBARU.</td>
</tr>
<tr>
<td>Session 2.10</td>
<td>Petropoulou, M.</td>
<td>On the multiwavelength emission from compact sources in the inverse Compton catastrophe limit</td>
</tr>
<tr>
<td>Session 2.11</td>
<td>Xilouris, E.</td>
<td>Tracing star formation relations across the CO ladder and redshift space</td>
</tr>
</tbody>
</table>

## Session 3: Cosmology and Relativistic Astrophysics

<table>
<thead>
<tr>
<th>Session 3.01</th>
<th>Geroyannis, V.</th>
<th>Computing differentially rotating general-relativistic polytropic models by a post-Newtonian hybrid approximative scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 3.02</td>
<td>Plionis, M.</td>
<td>Anisotropies in the Hubble flow traced by SNIa</td>
</tr>
<tr>
<td>Session 3.03</td>
<td>Sanidas, S.</td>
<td>The Large European Array for Pulsars: First years of operation</td>
</tr>
</tbody>
</table>

## Session 4: Stars, Planets and the Interstellar Medium

<table>
<thead>
<tr>
<th>Session 4.01</th>
<th>Anagnos, Th.</th>
<th>Exoplanet and variable star search in the ThReT 2012 field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session 4.02</td>
<td>Bellas-Velidis, I.</td>
<td>Photometric observations of recent classical novae with the 2.3m Aristarchos telescope</td>
</tr>
<tr>
<td>Session 4.03</td>
<td>Boumis, P.</td>
<td>The Aristarchos Wide-Field Camera (AWFC): A new high-resolution imager for the 2.3m Aristarchos telescope</td>
</tr>
<tr>
<td>Session 4.04</td>
<td>Boumis, P.</td>
<td>Supernova Remnants: Powerful agents of stars formation feedback. The case of IC443</td>
</tr>
<tr>
<td>Session 4.05</td>
<td>Contadakis, M.E.</td>
<td>Detection of starquakes on magnetically active red dwarfs</td>
</tr>
<tr>
<td>Session 4.06</td>
<td>Gazeas, K.</td>
<td>Photometric study of the eclipsing systems DU Boo, CW Lyn, HS Aqr and MR Del</td>
</tr>
<tr>
<td>Session 4.07</td>
<td>Geroyannis, V.</td>
<td>A parallel code for multiprecision computations of the Lane-Emden differential equation</td>
</tr>
<tr>
<td>Session 4.08</td>
<td>Geroyannis, V.</td>
<td>Discussion on the numerical results of the &quot;global polytropic model&quot; for the exoplanet orbits of 15 systems</td>
</tr>
<tr>
<td>Session 4.09</td>
<td>Ioannou, Z.</td>
<td>A Real-time data reduction pipeline for stellar time-series photometry</td>
</tr>
<tr>
<td>Session 4.10</td>
<td>Ioannou, Z.</td>
<td>The Optical Light Curve of the Black Hole Candidate SWIFT J1753.4-0126</td>
</tr>
<tr>
<td>Session 4.11</td>
<td>Karampotsiou, E.</td>
<td>Discovery of new variable stars at the University of Athens</td>
</tr>
<tr>
<td>S4.12</td>
<td>Karpouzas, K.</td>
<td>A new insight into the possible triple system AV CMi</td>
</tr>
<tr>
<td>S4.13</td>
<td>Kokori, A.</td>
<td>The effects of defocused photometry on the estimation of transiting exoplanets parameters</td>
</tr>
<tr>
<td>S4.15</td>
<td>Mourtetzikoglou, A.</td>
<td>A search for stable orbits in triple-star systems</td>
</tr>
<tr>
<td>S4.16</td>
<td>Nanouris, N.</td>
<td>Image reconstruction using the Manchester-Athens wide field camera pipeline</td>
</tr>
<tr>
<td>S4.17</td>
<td>Petropoulou, M.</td>
<td>Distance and age determination of the Galactic clusters NGC 2682 and NGC 6205</td>
</tr>
<tr>
<td>S4.18</td>
<td>Papageorgiou, A.</td>
<td>Searching for a critical analysis of the eclipsing binaries timing variations</td>
</tr>
<tr>
<td>S4.19</td>
<td>Psaradaki, I.</td>
<td>The correlation between magnetic field lines and filamentary structures in the Polaris Flare</td>
</tr>
<tr>
<td>S4.20</td>
<td>Reig, P.</td>
<td>X-ray time lags in black-hole binaries during outbursts</td>
</tr>
<tr>
<td>S4.21</td>
<td>Tzouganatos, L.</td>
<td>Automated spectroscopic data reduction and stellar classification</td>
</tr>
<tr>
<td>S4.22</td>
<td>Uscanga, L.</td>
<td>Maser-emitting planetary nebulae</td>
</tr>
<tr>
<td>S4.23</td>
<td>Vasilopoulos, G.</td>
<td>An X-ray survey of the LMC with XMM-Newton</td>
</tr>
</tbody>
</table>
List of Participants

1. Anagnos Theodoros  
Aristotle University of Thessaloniki  
Greece

2. Anagnostopoulos Georgios  
Democritus University of Thrace  
Greece

3. Anastasiadis Anastasios  
IAASARS, National Observatory of Athens  
Greece

4. Anastasopoulou Konstantina  
University of Crete / FORTH  
Greece

5. Antoniadou Kyriaki  
Aristotle University of Thessaloniki  
Greece

6. Antoniou Vallia  
Harvard-Smithsonian Center for Astrophysics  
USA

7. Apostolatos Theocaris  
University of Athens  
Greece

8. Archontis Vasilis  
University of St. Andrews  
United Kingdom

9. Avdellidou Chrysa  
CAPS, University of Kent  
United Kingdom

10. Baltagiannis Agamemnon  
University of Patras  
Greece

11. Basilakos Spyros  
RCAAM, Academy of Athens  
Greece

12. Bauswein Andreas  
Aristotle University of Thessaloniki  
Greece

13. Bellas-Velidis Ioannis  
IAASARS, National Observatory of Athens  
Greece

14. Bogosavljevic Milan  
Astronomical Observatory Belgrade  
Serbia

15. Boumis Panos  
IAASARS, National Observatory of Athens  
Greece

16. Britavskiy Nikolay  
IAASARS, National Observatory of Athens  
Greece

17. Capozziello Salvatore  
Università di Napoli  
Italy

18. Charmandaris Vassilis  
NOA & Univ. of Crete  
Greece

19. Chintzoglou Georgios  
George Mason University  
USA

20. Chiotellis Alexandros  
IAASARS, National Observatory of Athens  
Greece

21. Chira Maria  
Aristotle University of Thessaloniki  
Greece

22. Christopher Natalie  
University of Oxford  
United Kingdom

23. Christopoulou Eleftheria-Panagiota  
University of Patras  
Greece

24. Chroni Lamprini  
University of Athens  
Greece

25. Chrysafeli Maria-Irini  
University of Athens  
Greece

26. Contadakis Michael E.  
Aristotle University of Thessaloniki  
Greece

27. Contopoulos Ioannis  
RCAAM, Academy of Athens  
Greece

28. Dallas Themis G.  
University of Thessaly  
Greece

29. Dasyra Kalliopi  
University of Athens  
Greece

30. Dialynas Konstantinos  
Academy of Athens  
Greece

31. Diaz-Santos Tania  
Universidad Diego Portales  
Chile

32. Dimitrakoudis Stavros  
IAASARS, National Observatory of Athens  
Greece

33. Doultsinou Vasiliki  
Aristotle University of Thessaloniki  
Greece

34. Efthymiopoulos Christos  
RCAAM, Academy of Athens  
Greece

35. Elbaz David  
CEA Saclay  
France

36. Eleni Areti  
University of Athens  
Greece

37. Emmanoulopoulos Dimitrios  
University of Southampton  
United Kingdom

38. Epitropakis Anastasios  
University of Crete  
Greece

39. Gallagher Peter  
Trinity College Dublin  
Ireland

40. Gazetas Kosmas  
University of Athens  
Greece

41. Georgakakis Antonis  
MPE/NOA  
Germany

42. Georgakarakos Nikolaos  
NYU Abu Dhabi  
Arab Emirates

43. Georganopoulos Markos  
UMBC-NASA/GSFC  
USA

44. Georgoulis Manolis  
RCAAM, Academy of Athens  
Greece

45. Geroyannis Vassilis  
University of Patras  
Greece

46. Giakoumoglouannaki Charidimi  
University of Athens  
Greece
47. Giannios Dimitrios
Purdue University
USA

48. Glampedakis Kostas
University of Murcia
Spain

49. Gontikakis Costis
RCAAM, Academy of Athens
Greece

50. Gourgouliatos Konstantinos
University of Leeds
United Kingdom

51. Harsoula Mirella
RCAAM, Academy of Athens
Greece

52. Hatziminaoglou Evanthia
ESO
Germany

53. Hillaris Alexander
University of Athens
Greece

54. Ioannidis Panagiotis
Hamburg Observatory
Germany

55. Ioannou Zach
Sultan Qaboos University
Oman

56. Iosif Panagiotis
Aristotle University of Thessaloniki
Greece

57. Isliker Heinz
Aristotle University of Thessaloniki
Greece

58. Kalas Paul
University of California, Berkeley
USA

59. Kalfountzou Eleni
University of Hertfordshire
United Kingdom

60. Kalomenopoulos Marios
University of Athens
Greece

61. Kalvouridis Tilemahos
National Technical University of Athens
Greece

62. Kanellakopoulos Anastasios
University of Athens
Greece

63. Karageorgopoulos Vasileios
University of Patras
Greece

64. Karampotsiou Efsevia
University of Athens
Greece

65. Karpouzas Konstantinos
Aristotle University of Thessaloniki
Greece

66. Katsaniakis Matthaios
RCAAM, Academy of Athens
Greece

67. Katsavrias Christos
University of Athens
Greece

68. Katsoulakos Grigorios
University of Athens
Greece

69. Kokori Anastasia
Aristotle University of Thessaloniki
Greece

70. Kontogiannis Ioannis
IAASARS, National Observatory of Athens
Greece

71. Kopsacheli Maria
IAASARS, National Observatory of Athens
Greece

72. Koukioglou Stavros
Greek Ministry Of Education
Greece

73. Kouloumvakos Athanasios
University of Ioannina
Greece

74. Koulouridis Elias
IAASARS, National Observatory of Athens
Greece

75. Koumantos Panagiotis
University of Athens
Greece

76. Kouroumpatzakis Konstantinos
Aristotle University of Thessaloniki
Greece

77. Koutsantoniou Leela - Elpida
RCAAM, Academy of Athens
Greece

78. Krikeli Maria
Aristotle University of Thessaloniki
Greece

79. Kromyda Garyfallia
Aristotle University of Thessaloniki
Greece

80. Kylafis Nikolaos
University of Crete
Greece

81. Lalounta Eleni
University of Patras
Greece

82. Laskarides Paul
University of Athens
Greece

83. Leforta
NOA & Univ. of Athens
Greece

84. Leonidaki Ioanna
IAASARS, National Observatory of Athens
Greece

85. Liakos Alexios
IAASARS, National Observatory of Athens
Greece

86. Lioukas Alexios
Western University
Canada

87. Lingri Dimitra
University of Athens
Greece

88. Liodakis Ioannis
University of Crete
Greece

89. Liokati Evangelia
University of Ioannina
Greece

90. Lois George
University of Athens
Greece

91. Madika Eftychia
Aristotle University of Thessaloniki
Greece

92. Magdis Georgios
University of Oxford
United Kingdom

93. Makridou Andriana
Aristotle University of Thessaloniki
Greece

94. Malandraki Olga
IAASARS, National Observatory of Athens
Greece

95. Manousakis Antonios
Nicolaus Copernicus Astronomical Center
Poland
96. Maragkoudakis Alexandros  University of Crete / FORTH  Greece
97. Maravelias Grigoris  Astronomical Institute, CAS  Czech Republic
98. Markakis Konstantinos  University of Cologne/MPiR  Germany
99. Mastichiadis Apostolos  University of Athens  Greece
100. Mavromichalaki Helen  University of Athens  Greece
101. McCaughrean Mark  ESA  The Netherlands
102. Menesidou Sofia-Anna  Democritus University of Thrace  Greece
103. Meyer Eileen  STScI  USA
104. Migkas Konstantinos Nikolaos  Aristotle University of Thessaloniki  Greece
105. Mitrokotsa Stefania  University of Athens  Greece
106. Moraitis Kostas  RCAAM, Academy of Athens  Greece
107. Morbidelli Alessandro  CNRS/OCA  France
108. Mourtetzikoglou Athanasios  Aristotle University of Thessaloniki  Greece
109. Myserlis Ioannis  MPIfR  Germany
110. Nanouris Nikolaos  IAASARS, National Observatory of Athens  Greece
111. Nathanail Antonios  Academy of Athens & University of Athens  Greece
112. Niarchos Panagiotis  University of Patras  Greece
113. Nifadopoulou Maria  Hellenic Open University  Greece
114. Nikou Eleni  University of Ioannina  Greece
115. Nindos Alexander  University of Ioannina  Greece
116. Paouris Evangelos  University of Athens  Greece
117. Papadakis Iossif  University of Crete  Greece
118. Papadakis Konstantinos  University of Patras  Greece
119. Papadimitriou Constantinos  IAASARS, National Observatory of Athens  Greece
120. Papadopoulos Demetrios  Aristotle University of Thessaloniki  Greece
121. Papageorgiou Athanasios  University of Patras  Greece
122. Papakonstantinou Nikolaos  University of Athens  Greece
123. Papastergis Manolis  Kapteyn Institute/U. of Groningen  The Netherlands
124. Park Sung-Hong  IAASARS, National Observatory of Athens  Greece
125. Patiss Panos  RCAAM, Academy of Athens  Greece
126. Patsourakos Spiros  University of Ioannina  Greece
127. Pavlidou Vasiliki  University of Crete  Greece
128. Pavlos George  Democritus University of Thrace  Greece
129. Petris Sofianos  University of Athens  Greece
130. Petropoulou Maria  Purdue University  USA
131. Petropoulou Maria  University of Athens  Greece
132. Piskas Theophilos  Aristotle University of Thessaloniki  Greece
133. Platanos Iason-Dimitrios  University of Athens  Greece
134. Plionis Manolis  Aristotle University of Thessaloniki  Greece
135. Pouri Athina S.  RCAAM & University of Athens  Greece
136. Psaradaki Ioanna  University of Crete  Greece
137. Psychogyios Alexandros  Aristotle University of Thessaloniki  Greece
138. Reig Pablo  IESL/FORTH  Greece
139. Samaras Nikolaos  Aristotle University of Thessaloniki  Greece
140. Sanidas Sotirios  API/University of Amsterdam  The Netherlands
141. Sarafopoulos Dimitrios  Democritus University of Thrace  Greece
142. Sarris Theodos  Democritus University of Thrace  Greece
143. Seiradakis John  Aristotle University of Thessaloniki  Greece
144. Skoulidou Despoina  Aristotle University of Thessaloniki  Greece
<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Affiliation and Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>145.</td>
<td>Spetsieri Zoi</td>
<td>University of Patras, Greece</td>
</tr>
<tr>
<td>146.</td>
<td>Strantzalis Achillies</td>
<td>University of Athens, Greece</td>
</tr>
<tr>
<td>147.</td>
<td>Syntelis Petros</td>
<td>RCAAM / University of Athens, Greece</td>
</tr>
<tr>
<td>148.</td>
<td>Tassis Konstantinos</td>
<td>University of Crete, Greece</td>
</tr>
<tr>
<td>149.</td>
<td>Tezari Anastasia</td>
<td>University of Athens, Greece</td>
</tr>
<tr>
<td>150.</td>
<td>Theodosisou Anna</td>
<td>University of Patras, Greece</td>
</tr>
<tr>
<td>151.</td>
<td>Toloiu Athanasia</td>
<td>Aristotle University of Thessaloniki, Greece</td>
</tr>
<tr>
<td>152.</td>
<td>Trichas Markos</td>
<td>Airbus Defence and Space, United Kingdom</td>
</tr>
<tr>
<td>153.</td>
<td>Tritakis Vasileios</td>
<td>Academy of Athens &amp; Mariolopoulos-Kanaginis Fdn, Greece</td>
</tr>
<tr>
<td>154.</td>
<td>Tritsis Aris</td>
<td>University of Crete, Greece</td>
</tr>
<tr>
<td>155.</td>
<td>Tseneklidou Dimitra</td>
<td>Aristotle University of Thessaloniki, Greece</td>
</tr>
<tr>
<td>156.</td>
<td>Tsiaras Angelos</td>
<td>University College London, United Kingdom</td>
</tr>
<tr>
<td>157.</td>
<td>Tsiganis Kleomenis</td>
<td>Aristotle University of Thessaloniki, Greece</td>
</tr>
<tr>
<td>158.</td>
<td>Tsinganos Kanaris</td>
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</tr>
<tr>
<td>159.</td>
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