



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



Program Outline

<p>Sunday (28/6) <i>Venue: Thessaloniki City Hall</i></p> <p>18.30–20.00 Registration</p> <p>20.00–20.15 Opening Addresses</p> <p>20.15–21.00 Public Outreach Talk (S. Krimigis)</p> <p>21.00 Welcome Reception</p>	<p>Monday (29/6) <i>Venue: KEDEA Bld.</i></p> <p>09.00-09.20 Opening addresses</p> <p>09.20-11.10 Sessions S1 // S2</p> <p>11.10-11.30 <i>Coffee Break</i></p> <p>11.30-12.15 PT1 (M. McCaughrean)</p> <p>12.20-14.00 S1 // S2</p> <p>14.00-15.00 <i>Lunch Break</i></p> <p>15.00-15.30 Highlight Talk by a Young Astronomer (D. Giannios)</p> <p>15.30-17.10 S1 // S2</p> <p>17.10-17.30 <i>Coffee Break</i></p> <p>17.30-21.30 Special Session: Identifying Greece's prospects in Space</p>
<p>Tuesday (30/6) <i>Venue: KEDEA Bld.</i></p> <p>09.20-11.10 S1 // S2</p> <p>11.10-11.30 <i>Coffee Break</i></p> <p>11.30-12.15 PT2 (D. Elbaz)</p> <p>12.20-14.00 S1 // S2</p> <p>14.00-15.00 <i>Lunch Break & Graduate</i> <i>Students Young PhDs reception</i></p> <p>15.00-15.30 Best PhD Prize Talk (M. Petropoulou)</p> <p>15.30-17.20 S1 // S2</p> <p>17.20-17.40 <i>Coffee Break</i></p> <p>17.40-19.00 General Assembly of Hel.A.S.</p>	<p>Wednesday (1/7) <i>Venue: KEDEA Bld.</i></p> <p>09.20-11.10 S4 // S2</p> <p>11.10-11.30 <i>Coffee Break</i></p> <p>11.30-12.15 PT3 (A. Morbidelli)</p> <p>12.20-13.50 S4 // S1</p> <p>14.00-15.00 <i>Lunch Break</i></p> <p>15.00-15.45 PT4 (P. Kalas)</p> <p>15.50-17.20 S4 // S3</p> <p>19.00 Archaeological Museum Guided Tour</p> <p>20.00 Conference Dinner</p>
<p>Thursday (2/7) <i>Venue: KEDEA Bld.</i></p> <p>09.30-11.00 S3 // S4</p> <p>11.00-11.20 <i>Coffee Break</i></p> <p>11.20-12.05 PT5 (S. Capozziello)</p> <p>12.10-13.40 S3 // S4</p> <p><i>Closing Lunch</i></p>	<p style="text-align: right;">Legend</p> <p style="text-align: right;"><i>PT: Plenary Talk</i></p> <p style="text-align: right;"><i>S1: Heliophysics and The Solar System</i></p> <p style="text-align: right;"><i>S2: Extragalactic Astronomy and Astrophysics</i></p> <p style="text-align: right;"><i>S3: Cosmology and Relativistic Astrophysics</i></p> <p style="text-align: right;"><i>S4: Stars, Planets and the Interstellar Medium</i></p> <p style="text-align: right;">* Lunch breaks will take place at KEDEA (buffet lunch offered to participants)</p>

Best PhD Prize Talk

"Exploring the properties of leptohadronic plasmas: from theory to observations"
(M. Petropoulou, Purdue University, USA)

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

Chair: L. Vlahos

- 09.20-09.50** Th. Sarris: “Modeling populations of energetic particles in the radiation belts through data assimilation models using novel estimates of the radial diffusion coefficients ” (Invited)
- 09.50-10.10** C. Tsironis: “Modeling of plasma dynamics in the inner geospace during enhanced magnetospheric activity”
- 10.10-10.30** C. Katsavrias: “Combined Effects of Concurrent Pc5 and Chorus Waves on Relativistic Electron Dynamics”
- 10.30-10.50** S. Dimitrakoudis: “ULF wave radial diffusion in the radiation belts as determined through a multi-parameter study”
- 10.50-11.10** D. Sarafopoulos: “Anatomy of the Pulsating Double Layer Source in the Earth's Magnetotail”

11.10-11.30 Coffee Break

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

Chair: M. Georgoulis

- 12.20-12.40** K. Tsiganis: “The AIDA mission to the binary asteroid Didymos”
- 12.40-13.00** K. Dialynas: “On the origin of the 5-55 keV Heliosphere ENAs using Cassini/INCA measurements”
- 13.00-13.20** S.-A. Menesidou: “Correlation between CME-related strong geomagnetic storms, SEP and Earth's surface temperature in north-east USA: 1997-2015”
- 13.20-13.40** E. Paouris: “The CME-index for short-term estimation of Ap geomagnetic index based on the new ICME list”
- 13.40-14.00** V. Tritakis: “Preliminary Measurements of Schumann's Resonances (SR) in the Greek Area”

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: K. Tsinganos

- 15.30-15.50** V. Archontis: “Nanoflares, avalanches and heating of the solar corona.”
- 15.50-16.10** L. Vlahos: “Coronal heating from explosive events: A kinetic approach”
- 16.10-16.30** I. Kontogiannis: “Probing the quiet Sun structure and dynamics with ground and space based instruments”
- 16.30-16.50** H.-S. Park: “A granule seen in the far wings of the H-alpha line: exceptional darkening before fragmentation”
- 16.50-17.10** M. Trichas: “Carrington-L5: The UK/US Next Generation Space Weather Operational Mission”

Tuesday, June 30th

Chair: A. Nindos

- 09.20-09.50** P. Gallagher: “The Solar Origins and Terrestrial Impacts of Space Weather” (Invited)
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”
10.10-10.30 O. Malandraki: “HORIZON 2020 ‘HESPERIA’ Project: High Energy Solar Particle Events Forecasting and Analysis”
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: A. Anastasiadis

- 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”
12.40-13.00 G. Chintzoglou: “Formation of Magnetic Flux Ropes during Confined Flaring Well Before the Onset of a Pair of Major Coronal Mass Ejections”
13.00-13.20 P. Syntelis: “The nature of recurrent 3D CME-like eruptions in active regions”
13.20-13.40 E. Liokati: “The Role of the Background Magnetic Field in the Major Eruptions of AR11429”
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

- 15.30-15.50** A. Nindos: “How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations”
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)

12.50-13.10 D. K. Skoulidou: “Effect of sun’s mass loss in the dynamical evolution of the Solar System”

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

- 09.20-9.50** 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. Anastasopoulou: "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"

10.50-11.10 A. Mastichiadis: “Variability signatures in the context of the one-zone hadronic model for blazars and GRBs”

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)**

12.20-12.40 V. Charmandaris: “Constraining the Properties of AGN host galaxies with Spectral Energy Distribution modeling”

12.40-13.00 E. Hatziminaoglou: “A complete census of mid-infrared spectral features in AGN”

13.00-13.20 A. Psychogios: “Non-parametric morphological classification of LIRGs”

13.20-13.40 E. Vardoulaki: “Spatial variations in the IR/radio correlation in Luminous Infrared Galaxies”

13.40-14.00 T. Diaz-Santos: “ISM Properties of Cold and Warm local LIRGs”

14.00-15.00 Lunch Break & Graduate Students Young PhDs reception

15.00-15.30 **Best PhD Prize Talk: “Exploring the properties of leptohadronic plasmas: from theory to observations” (M. Petropoulou)**

Chair: V. Pavlidou

15.30-16.00 A. Georgakakis: “The formation of supermassive black holes accross cosmic time” (Invited)

16.00-16.20 D. Emmanoulopoulos: “Unveiling the behaviour of matter around black holes”

16.20-16.40 E. Lefa: “Modeling the AGN X-ray spectra with Monte Carlo simulations: the case of torii with density gradients”

16.40-17.00 M. Vika: “The physical properties of local galaxies with Spitzer mid-IR spectra: UV to infrared modelling”

Wednesday, July 1st

Chair: P. Patsis

09.20-09.50 V. Pavlidou: “RoboPol: First season rotations of optical polarization plane in blazars” (Invited)

09.50-10.10 E. Kalfountzou: “Unveiling the role of radio jets to the AGN/Star-formation connection”

10.10-10.30 K. Dasyra: “A radio jet drives a molecular & atomic gas outflow in multiple regions within 1 kpc² of the nucleus of IC5063”

10.30-10.50 K. Markakis: “Subaru and e-Merlin observations of NGC3718. Diaries of a supermassive black hole recoil?”

Coffee Break

Session 3: Cosmology and Relativistic Astrophysics

Convenors: K. Kokkotas and M. Plionis

Wednesday, July 1st

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: *S. Capozziello*

15.50-16.20 K. Glampedakis: “Neutron stars: cosmic laboratories of gravity and dense matter” (Invited)

16.20-16.40 N. Kylafis: “Jet formation in black-hole X-ray transients and implications”

16.40-17.00 E. Koutsantoniou: “Black holes, radiation and the accretion disk”

Thursday, July 2nd

Chair: *N. Kylafis*

09.30-10.00 T. Apostolatos: “Neutron stars: Are they bald like black holes ” (Invited)

10.00-10.20 A. Bauswein: “Inferring neutron-star properties from the gravitational-wave emission of binary mergers ”

10.20-10.40 A. Manousakis: “Relativistic simulations of oscillating slender torus ”

10.40-11.00 K. Gourgouliatos: “Magnetic Field Evolution in Neutron Star Crusts through 3-D Simulations”

11.00-11.20 *Coffee Break*

11.20-12.05 **Plenary Talk 5: “Stellar Structures in Extended Gravity” (S. Capozziello)**

Chair: *M. Plionis*

12.10-12.40 S. Basilakos: “Geometrodynamics in Cosmology: from Planck to modified gravity ” (Invited)

12.40-13.00 S. Sanidas: “New Constraints of the cosmic string tension from EPTA”

13.00-13.20 D. Papadopoulos: “Frequency spectrum of radiation from accelerated charged particle in a magnetized curved space time ”

13.20-13.40 A. Nathanail: “Looking at the black hole that powers Long Gamma Ray Bursts ”

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?"
13.20-13.40 A. Liakos: "Poetry in motion: Asteroseismology of delta Scuti stars in binaries using Kepler data"
13.40-14.00 P. Boumis: "The Manchester-Athens Wide-Field Camera (MAWFC): A new state-of-the-art ~30 degree diameter, narrow-band, optical filter camera"

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. Tritesis: "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*

11.20-12.05 **Plenary Talk 5: "Stellar Structures in Extended Gravity" (S. Capozziello)**

Chair: P. Christopoulou

12.10-12.30 N. Georgakarakos: “Analytic orbit propagation for transiting circumbinary planets”

12.30-12.50 G. Voyatzis: “Orbits of long-term stability in three-planet systems”

12.50-13.10 K. Antoniadou: “Highly eccentric exoplanets trapped in mean-motion resonances”

13.10-13.40 V. Doultsinou: “Free-floating planet scattering by a star-planet pair: the 3D case”

Closing Lunch

Special Session: Identifying Greece's prospects in Space

Convenors: A. Vourlidas (Chair), D. Rigopoulou and M. Trichas

Monday, June 29, 17.30-21.45

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 M. Georgoulis: "Greece and ESA's Science Program Committee: National Involvement"

CURRENT STATUS

- 18.15-18.30** S. Georgatos (Gvt): "Government Plans for Greece's Technological Presence in ESA Missions"
18.30-18.45 V. Makios (Corallia): "The Hellenic Space Technologies and Applications Cluster, the growing Greek space ecosystem"
18:45-19:00 U. Becker (ESA): "ESA plans and the Greek involvement so far"
19.00-19.15 Ch. Giannopapa (ESA): "Greek membership in ESA: 10 years of cooperation and future prospects"
19.15-19.30 A. Narlis (EAB): "Space Activities of the Greek Industry: Key Players"
19.30-20.15 K. Tsinganos / A. Paschalis / Th. Sarris : "Science Hardware/Software Capabilities in Greece"
20.15-20.30 H. Kontoes: "Greece's participation in the 1st H2020 Space call"
20.30-20.45 I. Georgantopoulos: "X-ray Astronomy with the support of EU and ESA projects"

FUTURE

- 20.45-21.00** A. Anastasiadis: "The Case for a Greek Space Committee"

- 21.00-21.45** **Panel Discussion: "Greek Space Strategy"** (Coordinator: A. Vourlidas)

Panelists:

Government, Industry, Science H/W, Academia

[A. Vourlidas, Jorge-A. Sanchez-P, M. Trichas, K. Tsinganos, M. Georgoulis]

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 Andravida 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, J.](#) 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

- S2.01** [Antoniou, V.](#) The link between young X-ray binaries and star formation in our nearest low-metallicity star-forming galaxy
- S2.02** [Gazeas, K.](#) Multi-wavelength monitoring of the highly active blazar Mrk 421. Investigating the high vs. low energy correlated variability
- S2.03** [Gazeas, K.](#) The robotic and remotely controlled telescope at the University of Athens Observatory
- S2.04** [Katsanikas, M.](#) Complex Instability and Hopf Bifurcation in a 3D Galactic Potential
- S2.05** [Katsanikas, M.](#) The Cosmic Battery in Accretion Discs
- S2.06** [Kouroumpatzakis, K.](#) BPT diagrams: The far-IR properties of the missing population
- S2.07** [Lianou, S.](#) Testing the Modified Lognormal Probability Distribution with Young Stellar Clusters
- S2.08** [Makridou, A.](#) Galaxy clusters and large scale structures formation using Cellular Automata models
- S2.09** [Markakis, K.](#) Jet-induced star formation in Cen A? Probing the infrared luminous stars with SUBARU.
- S2.10** [Petropoulou, M.](#) On the multiwavelength emission from compact sources in the inverse Compton catastrophe limit
- S2.11** [Xilouris, E.](#) Tracing star formation relations across the CO ladder and redshift space

Session 3: Cosmology and Relativistic Astrophysics

- S3.01** [Geroyannis, V.](#) Computing differentially rotating general-relativistic polytropic models by a post-Newtonian hybrid approximative scheme
- S3.02** [Plionis, M.](#) Anisotropies in the Hubble flow traced by SNIa
- S3.03** [Sanidas, S.](#) The Large European Array for Pulsars: First years of operation

Session 4: Stars, Planets and the Interstellar Medium

- S4.01** [Anagnos, Th.](#) Exoplanet and variable star search in the ThReT 2012 field
- S4.02** [Bellas-Velidis, I.](#) Photometric observations of recent classical novae with the 2.3m Aristarchos telescope
- S4.03** [Boumis, P.](#) The Aristarchos Wide-Field Camera (AWFC): A new high-resolution imager for the 2.3m Aristarchos telescope
- S4.04** [Boumis, P.](#) Supernova Remnants: Powerful agents of stars formation feedback. The case of IC443
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