

Monday, July 8

University of Thessaly, Dept. of Economics, 28th of October, 78

10:00 – 10:30	Registration	
10:30 – 10:45	Opening Address	
10:45 – 11:30	Plenary Talk S1: S.K. Antiochos: “The Origins of Explosive Activity in the Coronae of the Sun and Stars”	
11:30 – 12:00	Coffee Break and Registration (continued) – Poster session	
	S1: Heliophysics & Solar System	S2: Extragalactic
Chair	S. Patsourakos	A. Mastichiadis
12:00 – 13:30	<p>12:00 - 12:30 A. Vourlidis (invited) "Touching the Sun": The Parker Solar Probe Mission</p> <p>12:30 - 12:50 O. Malandraki Current sheets, magnetic islands and associated particle acceleration in the solar wind as observed by Ulysses near the ecliptic plane</p> <p>12:50 - 13:10 P. Syntelis Recurrent CME - like eruptions</p> <p>13:10 - 13:30 A. Kouloumvakos Connecting coronal shock wave properties from modeling and observations with those of solar energetic particles</p>	<p>12:00 - 12:30 K. Dasyra (invited) Outflows and inflows in galaxies and in the vicinity of black holes</p> <p>12:30 – 12:50 Ch. Sinnis Stability analysis of two–component magnetized astrophysical jets</p> <p>12:50 - 13:10 I. Florou The onset of Supercriticality in expanding sources</p> <p>13:10 - 13:30 S. Boula On the connection of radio and gamma - ray emission</p>
13:30 – 14:30	Lunch Break	
14:30 – 15:15	Plenary Talk S2: E. Athanassoula: “Formation and evolution of galactic discs: starting with a major merger”	
	S1: Heliophysics & Solar System	S2: Extragalactic
Chair	C. Gontikakis	A. Georgakakis
15:30 – 16:30	<p>15:30 - 15:50 Th. Sarris Daedalus: A Low - Flying Spacecraft for the Exploration of the Lower Thermosphere – Ionosphere</p> <p>15:50 - 16:10 G. Balasis Investigating dynamical complexity at Swarm altitudes using information - theoretic measures</p> <p>16:10 - 16:30 A. Liakos (E. Xilouris) Scientific results from the first phase of the NELIOTA lunar monitoring campaign</p>	<p>15:30 - 15:50 N. Vlahakis Relativistic jets from black holes and disks</p> <p>15:50 - 16:10 E. Vardoulaki Multi - component radio sources at 3 - GHz VLA - COSMOS</p> <p>16:10 - 16:30 J.A. Fernández – Ontiveros (M. Papachristou) A Jet Revealed by its Interaction with the ISM: the Molecular Gas Outflow in the Nucleus of ESO 420 - G13</p>

Monday, July 8 (cont.)

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16:30 - 17:00	Coffee Break	
	S1: Heliophysics & Solar System	S4: Stars, Planets & ISM
Chair	A. Anastasiadis	K. Tassis
17:00 - 18:30	<p>17:00 - 17:30 A. Solomonidou (invited) Ocean worlds: Titan's geology and astrobiology</p> <p>17:30 - 17:50 K. Tsiganis and the HERA Investigation Team The HERA mission to the binary NEA (65803) Didymos</p> <p>17:50 - 18:10 E. Paouris Quantifying the reliability of CME speeds derived from single viewpoint observations</p> <p>18:10 - 18:30 A. Toliou (M. Tsiganis) Inclination excitation in the asteroid belt during the dissipation of the protoplanetary gas disk</p>	<p>17:00 - 17:30 N. Prantzos (invited) Recent views on the chemical evolution of the Milky Way</p> <p>17:30 - 17:50 F. Tramper Southern Massive Stars at High Angular Resolution</p> <p>17:50 - 18:10 G. Maravelias (F. Tramper) Automated classification of massive stars in nearby galaxies</p> <p>18:10 - 18:30 D. Hatzidimitriou The Hubble Catalog of Variables</p>
18:50 - 20:00	National Astronomical Committee – Hel.A.S. G.C. meeting	
20:30 – 22:00	Opening Public Talk (in Greek): Nikos Prantzos : “Humanity's perspectives in space”, Central University Building, Philellinon & Argonafton	
22:00 – 23:30	Welcome Reception (Central University Building, Philellinon & Argonafton)	

Tuesday, July 9

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9:30 – 10:15	Plenary Talk S3: N. Stergioulas: “Spectral classification of gravitational wave emission and EOS constraints in binary neutron star mergers”	
	S1: Heliophysics & Solar System	S3: Cosmology
Chair:	K. Tsiganis	N. Vlahakis
10:30 – 11:40	<p>10:30 - 11:00 L. Vlahos (invited) Solar Eruptions and their Space Weather Impact</p> <p>11:00 - 11:20 K. Tziotziou Dynamics of an intricate and persistent quiet - Sun small - scale vortex</p> <p>11:20 - 11:40 K. Moraitis Magnetic helicity and eruptivity in active region 12673</p>	<p>10:30 - 11:00 D. Giannios Neutron Star Mergers: Gravitational Waves and Jet Structure</p> <p>11:00 - 11:20 P. Stefanou Particle Acceleration in the Current Sheet of Pulsar Magnetospheres</p> <p>11:20 - 11:40 N. Karnesis Listening to the Universe with the LISA mission: current status and future prospects</p>
11:40 – 12:00	Coffee Break – Poster Session	
	S1: Heliophysics & Solar System	S3: Cosmology
Chair	G. Tsiropoula	M. Plionis
12:00 - 13:30	<p>12:00 - 12:20 E. Zhuleku EUV and X - ray loops above active regions of different activity levels</p> <p>12:20 - 12:40 A. Koumtzis Power law flare statistics driven by photospheric turbulence</p> <p>12:40 - 13:00 K. Karampelas Simulations of decayless oscillations in coronal loops: dynamics and heating</p> <p>13:00 - 13:30 Short presentation of posters</p>	<p>12:00 - 12:30 D. Papadopoulos The magnetic Rayleigh - Taylor instability around astrophysical black holes</p> <p>12:30 - 12:50 D. Kantzas Emission from secondary electrons in the jets of Cygnus X - 1</p> <p>12:50 - 13:10 M. Chira Environmental Dependence of the Dynamical Properties of Light - cone Simulation Dark Matter Haloes</p>
13:30 – 15:00	Lunch Break	
15:00 – 16:00	Best PhD talk: G. Vasilopoulos Study of highly magnetized accreting neutron stars in the Magellanic Clouds and beyond	
16:00 – 16:30	Coffee Break – Poster Session	

Tuesday, July 9 (cont.)

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	S1: Heliophysics & Solar System	S2: Extragalactic
Chair	K. Tziotziou	Ch. Efthymiopoulos
16:30 – 18:00	<p>16:30 - 17:00 G. Tsiropoula (invited) The solar chromosphere: outstanding problems and new opportunities</p> <p>17:00 - 17:20 G. Chintzoglou The Origin of Major Solar Activity: Collisional Shearing between Nonconjugated Polarities of Multiple Bipoles Emerging within Active Regions</p> <p>17:20 - 17:40 I. Kontogiannis Flux emergence in the quiet Sun, observed from the photosphere to the corona</p> <p>17:40 - 18:00 C. Gontikakis Analysis of resonant scattering and opacity effects in solar EUV spectra emitted by transition region plasma</p>	<p>16:30 - 17:00 A. Bosma (invited) HI in galaxies and the dark matter problem</p> <p>17:00 - 17:20 P.A. Patsis The thickness of the spiral arms and how it affects their extent</p> <p>17:20 - 17:40 P. Bonfini Post - merger signatures as age tracers of early - type galaxies</p> <p>17:40 - 18:00 K. Zouloumi Invariant Manifolds and Chaos in the Milky Way and N - body models of barred galaxies</p>
18:00 – 18:05	Short break	
18:05 – 19:30	General Assembly	
20:30 – 21:30	<p>IAU100 Public Talk (in Greek): Th. Economou “The 50th anniversary of humans landing on the Moon”, Central University Building, Philellinon & Argonafton.</p>	

Wednesday, July 10

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9:30 – 10:15	Plenary Talk S4: G. Gilmore: “GAIA – from asteroids to gravitational waves”	
	S2: Extragalactic	S4: Stars, Planets & ISM
Chair:	M. Harsoula	P. Boumis
10:30 – 11:40	<p>10:30 - 11:00 E. Xilouris (invited) DustPedia - A Definitive Study of Dust in the Local Universe</p> <p>11:00 - 11:20 A. Nersesian Revealing the dust heating processes in the local Universe</p> <p>11:20 - 11:40 A. Maragkoudakis PAHs and star formation in the H II regions of M83 and M33</p>	<p>10:30 - 11:00 A. Zezas (invited) X - ray binary populations in nearby galaxies</p> <p>11:00 - 11:20 I. Contopoulos Dynamics of Accretion–Ejection Flows</p> <p>11:20 - 11:40 A. Filothodoros Meterwavelength Single - pulse Polarimetric Emission Survey: A Study of Pulsars' Component Widths</p>
11:40 – 12:00	Coffee Break – Poster Session	
	S2: Extragalactic	S4: Stars, Planets & ISM
Chair:	P.A. Patsis	I. Contopoulos
12:00 - 13:30	<p>12:00 - 12:30: Ch. Efthymiopoulos (invited) Galactic tidal streams</p> <p>12:30 - 12:50: M. Harsoula A Milky Way potential with two pattern speeds</p> <p>12:50 - 13:10: Th. Bisbas Cosmic - ray induced destruction of CO in star - forming galaxies</p> <p>13:10 - 13:30: K. Anastasopoulou Correlation between X - ray emission and stellar populations: the definitive study of nearby galaxies observed with XMM - Newton</p>	<p>12:00 – 12:20 P. Kalas A near co - planar stellar flyby of the HD 106906 planetary system</p> <p>12:20 - 12:40 A. Tsiaras The legacy of HST/WFC3: First insights into the nature of super - Earths</p> <p>12:40 - 13:00 S. Savvidou Thermal structures of protoplanetary discs</p> <p>13:00 – 13:20 A. Kokori Ground - based exoplanet observations in support of the ARIEL space mission</p> <p>13:20 – 13:40 N. Georgakarakos Is the system real? The case of the HD 34445 multi - planet system</p>
13:30 – 15:00	Lunch Break	
15:00 – 16:00	<p align="center">“Radioastronomy in Greece”</p> <p align="center">15:00 - 15:20 Introduction by K. Dasyra 15:20 - 16:00 Discussion</p>	
16:00 – 16:30	Coffee Break – Poster Session	

Wednesday, July 10 (cont.)

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	S2: Extragalactic	S4: Stars, Planets & ISM
Chair:	V. Pavlidou	P. Kalas
16:30 – 18:10	<p>16:30 - 16:50 K. Kouroumpatzakis Probing the building blocks of galaxies: sub - galactic scaling relations between X - ray luminosity, SFR and stellar mass</p> <p>16:50 - 17:10 V. Masoura The dependence of star formation on AGN activity and absorption</p> <p>17:10 - 17:30 I. Myserlis Coupling between the small and large scale magnetic field configuration in the relativistic jet of OJ 287</p>	<p>16:30 - 16:50 K. Tassis “Hearing” the 3D shape of Musca molecular cloud</p> <p>16:50 - 17:10 A. Chiotellis On the interaction of Type Ia Supernovae with Planetary Nebulae</p> <p>17:10 - 17:30 J.A. Kyriotakis Mapping the Physical Properties of Supernova Remnants in our Galaxy</p> <p>17:30 – 17:50 S. Derlopa A holistic study of the supernova remnant VRO 42.05.01 (G 166.0 +4.3)</p> <p>17:50 – 18:10 M. Kopsacheilli Study of Extragalactic Supernova Remnants</p>
19:00 – 20:30	IAU100 Public Talk (in Greek): C. Gontikakis “Solar flares – fireworks on the Sun”	
21:00	Conference Dinner: Restaurant “Ta Kymata” Argonafton & Topali	

Thursday, July 11

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	S2: Extragalactic	S4: Stars, Planets & ISM
Chair:	G. Livadiotis	D. Hatzidimitriou
10:00 – 11:30	<p>10:00 - 10:30 E. Koulouridis (invited) Active Galactic Nuclei in galaxy clusters</p> <p>10:30 - 10:50 S. Kerasioti Modeling of polarized synchrotron radiation from magnetohydrodynamic AGN jets</p> <p>10:50 - 11:10 E. Pouliaxis Robust Identification of Active Galactic Nuclei through HST Optical Variability in GOODS - S: Comparison with the X - ray and mid - IR Selected Samples</p> <p>11:10 - 11:30 A. Georgakakis Forward modeling the energetic Universe: towards a unified model for the multiwavebands properties of Active Galactic Nuclei</p>	<p>10:00 - 10:20 G. Voyatzis Limits of stable periodic motion of triple star systems</p> <p>10:20 - 10:40: G. Loukaidou Investigating coalescence scenarios on Low Mass Contact Binaries</p> <p>10:40 - 11:30 Poster session I</p>
11:30 – 12:00	Coffee Break – Poster Session	
	S2: Extragalactic	S4: Stars, Planets & ISM
Chair	E. Xilouris	A. Zezas
12:00 – 13:30	<p>12:00 - 12:20 G. Livadiotis Thermodynamics of Astrophysical plasmas</p> <p>12:20 - 12:40 V. Pavlidou PHAESTOS: Enabling charge particle astronomy with Galactic magnetic tomography</p> <p>12:40 - 13:00 I. Liodakis Prospects for detecting X - ray Polarization in blazar jets</p> <p>13:00 - 13:20: A. Mastichiadis Neutrino Emission from Blazars</p>	<p>12:00 - 13:00 Poster session II (Poster Session: 17x5 min talks by poster presenters)</p>
20:30 – 22:00	IAU100 Public Talk (in Greek): P. Patsis “Spirals in galaxies”	