

Porto MW-Gaia WG3 Workshop

Exoplanets in the era of Gaia

CT = Contributed Talk; IT = Invited Talk; P = Poster

Monday, November 18

Gaia and exoplanets: Overview of the Gaia mission; Exoplanet detection with Gaia; Overview of Exoplanet research

Coordinator – Vardan Adibekyan

09:00-09:25	REGISTRATION		
09:25-09:30	WELCOME		
09:30-10:00	Nicholas Walton	<i>MW-Gaia: Revealing the Milky Way with Gaia</i>	CT
10:00-10:45	Berry Holl	<i>Gaia: where we are now and what is to come</i>	IT
10:45-11:15	Coffee Break		
11:15-11:45	Alessandro Sozzetti	<i>Gaia astrometry and exoplanets: A treasure trove of synergies</i>	IT
11:45-12:15	Antoine Grandjean	<i>Close low-mass star/BD companions : a niche to calibrate evolutionary models</i>	CT

12:15-13:30 Lunch

Exoplanetary systems: Physical properties of exoplanets and their orbital architecture

Coordinator – Alexandre Correia

13:30-14:15	Lars A. Buchhave	<i>Statistical properties of exoplanets</i>	IT
14:15-14:45	Elke Pilat-Lohinger	<i>Planetary architectures in binary stars</i>	CT
14:45-15:15	Solène Ulmer-Moll	<i>Forecasting exoplanet radii with machine learning</i>	CT
15:15-15:45	Coffee Break		
15:45-16:15	Sérgio Sousa	<i>The metallicity-period-mass diagram of low-mass exoplanets</i>	CT
16:15-17:00	DISCUSSION (coordinator Alessandro Sozzetti)		

17:00-17:40 PLANETARIUM SHOW - Dawn of the Space Age (optional)

Tuesday, November 19

Exoplanet surveys: synergies between Gaia and ground-based RV exoplanet surveys

Coordinator – Nicholas Walton

09:00-09:45	Oscar Barragán	<i>The needle in the haystack: disentangling planetary and stellar activity signals in RV time series</i>	IT
09:45-10:15	Nuno Santos	<i>ESPRESSO and its first science</i>	CT
10:15-10:45	Hugo Taberner	<i>CARMENES in the era of Gaia</i>	CT
10:45-11:15	Coffee Break		
11:15-11:45	Domenico Barbato	<i>Search and characterization of wide companions of transiting hot Jupiters</i>	CT
11:45-12:15	Elisa Delgado Mena	<i>RV variations in evolved stars in open clusters: planets, oscillations or stellar activity?</i>	CT

12:15-13:30 Lunch

Exoplanet surveys: synergies between Gaia and other ongoing/upcoming space missions and ground-based exoplanet surveys (e.g. Transit, Direct Imaging)

Coordinator - Elisa Delgado Mena

13:30-14:15	Mariangela Bonavita	<i>TBD/ Direct imaging (remote)</i>	IT
14:15-14:45	Maksym Lisogorskyi	<i>PEXO: a global modeling framework for nanosecond timing, microsecond astrometry, and $\mu\text{m/s}$ radial velocities</i>	CT
14:45-15:15	Paolo Giacobbe	<i>Detection and characterization of giant planets combining astrometry, radial velocities and transits: the GAIA potential</i>	CT
15:15-15:45	Coffee Break		
15:45-16:15	Ozgur Basturk	<i>Exoplanet Studies and Observation Facilities in Turkey</i>	CT
16:15-17:00	DISCUSSION (coordinator Shay Zucker)		

20:00 WORKSHOP DINNER

Wednesday, November 20

Star-planet connection: Exoplanet host stars as an instrument to study planet formation and evolution in different environments

Coordinator - Sergio Sousa

09:30-10:15	Tiago Campante	<i>Synergy between asteroseismology and exoplanet science: an outlook</i>	IT
10:15-10:45	Jacob Hamer	<i>Hot Jupiters are Tidally Destroyed While Their Hosts are on the Main Sequence</i>	CT
10:45-11:15	Coffee Break		
11:15-11:45	Dolev Bashi	<i>Exoplanets in the galactic context (the Gaia era)</i>	CT
11:45-12:15	Vardan Adibekyan	<i>Heavy metal rules. Exoplanet incidence and metallicity</i>	CT
12:15-12:45	(POSTER SESSION)		
	Ana Ulla-Miguel	<i>Stellar cosmic rays and potential exoplanet habitability</i>	P
	Alan Alves	<i>Dynamics of the 3/1 planetary mean-motion resonance: an application to the HD60532 b-c planetary system</i>	P
	Nicolas Unger	<i>Reanalysis of the radial velocities data of HD40307 with the evidence estimator PolyChord</i>	P
12:45-14:00	Lunch		
14:00-15:00	DISCUSSION (coordinator Nuno Santos)		
15:00	Closing		

POSTERS

Alexandre Correia

Exoplanets and the Cradle of Life with the SKA

Ema Valente

Dynamics and Habitability of Multi-Planet Systems