sci science workshops



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SCI SCIENCE WORKSHOP 12

Hotel Occidental Barcelo Aranjuez

12-14 NOV 2019



OVERVIEW

The main purpose of this workshop is to present and discuss the science research that scientists in SCI-S and SCI-O are doing. It is an opportunity to "stretch" our abilities by trying to understand topics which we do not normally follow. It allows us to broaden our skill set and foster inter site as well as inter project cooperation in research activities.

The 12th SCI Science Workshop will take place from the afternoon of Nov 12 until the afternoon of Nov 14 2019 at the Hotel Occidental Aranjuez in the historic town of Aranjuez, which lies only 48 km from Madrid, Spain.

ORGANISING COMMITTEE

Michael Küppers, Alba Alcol, Rune Floberghagen, Erik Kuulkers, Gabriele Matzeu, Tanya Lim, Jan Tauber, Mylene Riemens, Joe Zender

This event is co-organised by SCI-O, ESAC and ESTEC Science Faculty.

PROGRAMME

Started Monday 12 November at 15:00, Ended Wednesday 14 November at 13:00

(Only accessible to Faculty Members)

Abstract booklet PDF (https://dms.cosmos.esa.int/cs/cs/Open/1439713)

All presentations can be found on Cosmos DMS: Science Faculty > SSW > 2019-SSW12-Aranjuez (https://dms.cosmos.esa.int/cs/cs/Open/1441812)

Tuesday 12 November		
13:00 - 15:00	Lunch	Poster Setup
Session	Chair: Nuria Álvarez	•
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15:00	Welcome	Arvind Parmar
15:10	Black holes: No hairs, no mercy (Invited)	Richard Saxton

15:40	Modelling black hole variability with XMM	Michael Parker
16:00	Solving the X-ray Broadband emission in the NLS1 TON S180	Gabriele Matzeu
16:20	An upper limit on the mass of a central black hole in the large magellanic cloud	Nora Luetzgendorf
16:40	Coffee Break	Poster Setup for stragglers
Session 2	Chair: Héctor Canovas	
17:00	Further Investigations of Massive Stars Found Outside Prominent Star Clusters Tony Marston	
17:20	Polluting in time and space Guido de Marchi	
17:40	Dynamical histories of nearby star-forming regions	Catarina Alves de Oliveira
18:00	New RFs and YGTs introduction	Jan-Uwe Ness/Ana Heras
18:30	End of Oral Session	
18:45	Poster Session + Icebreaker	All Poster first authors - Poster room
20:00	End of Sessions	
20:15	Buffet Dinner	

Wednesday 13 November			
Session	Chair:Georgina Graham		
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09:00	Radar Interferometry of Volcanoes (Invited) Julia Kubanek		
09:30	Unbuckling the Van Allen Belts: History and Physics Lionel Métrailler		
09:50	Radiation health risk assessment and mitigation beyond Low Earth Orbit. Anna Fogtman		
10:10	Discovering their Universe - consulting the public on Voyage 2050 Karen O'Flaherty		
10:30	Coffee Break / Posters	Poster room	
Session 4	Chair: Anezina Solomonidou		
10:50	Unlocking the Secrets of a Previously Unopened Apollo 17 Core Sample	Francesca McDonald	

11:10	Constraints on the origin of the sources of lunar magnetic anomalies from orbital magnetic field data	Joana S. Oliveira
11:30	Investigations of Mercury's surface phenomena – It's a MeSSS	Sebastien Besse
11:50	Quantifying the Latitudinal Distribution of Climate-Related Landforms on Mars' Southern Hemisphere	Martin Völker
12:10	New insights into the geology and topography of Oxia Planum	Ottaviano Ruesch
12:30	Lunch	Lunch room
Session 5	Chair:Sandor Kruk	
14:00	Astrometric detection of gravitational waves	Uwe Lammers
14:20	Gaia and Carte du Ciel	Timo Prusti
14:40	Fitting exoplanet orbits to the Gaia scanning law	Daniel Michalik
15:00	Gaia DR2 observations of Evolved Stars	Pedro Garcia-Lario
15:20	PanGaia: A Python toolkit to study Star Forming Regions using Gaia astrometry	Hector Canovas
15:40	Coffee Break / Posters	Poster room
Session	Chair:Ciro Pinto	
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16:10	Peanuts in the sky: classifying galaxy structure in large Sandor Kruk surveys	
16:30	Dusty star forming galaxies over cosmic time: what triggers their high star formation? Laia Barrufet	
16:50	Star formation properties of galaxies in extreme environments > 8 billion years ago	
17:10	Resolving high redshift star forming regions with gravitational lensing Tim Rawle	
17:30	Slow quenching of the star formation in the cores of galaxy clusters	Ivan Valtchanov
17:50	A catalogue of XMM Newton BL Lacs	Nuria Álvarez
18:10	GREEN ESA: A brain-storming discussion	Introduction: Felix Fürst (GREEN ESAC) and TBD (ESTEC)
10.10	End of Sessions	Free time until SSW12 Dinner
18:40		

Session	Chair: Ottaviano Ruesch		
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09:00	The young nuclear star clusters in NGC 5253	Linda Smith	
09:20	Cold lunar volatiles: So hot right now (Invited)	Elliot Sefton-Nash	
09:50	Space weathering of the surfaces of atmosphere-less icy bodies: overview of ESAC driven activities	Nicolas Altobelli	
10:10	Energetic ion depletions near the Galilean moons: interaction with plumes and atmosphere	Hans Huybrighs	
10:30	Titan's surface chemical composition constraints	Anezina Solomonidou	
10:50	Coffee Break / Posters	Poster room	
Session	Chair:Michael Parker		
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11:20	Investigating flux tubes within the solar wind	Georgina Graham	
11:40	Analytic form of electrostatic potential for solar wind acceleration Pedro Osuna		
12:00	How can a magnet hide its signature line? The case of 4U 1901+03 and 2S 1417-624	Felix Fürst	
12:20	Fast & Furious: powerful winds unveil super-Eddington accreting compact objects	Ciro Pinto	
12:40	Wrap-up	Markus Kissler-Patig	
13:00	Lunch Lunch room		
14:00	Bus to Barajas (ESTEC personnel)		
14:30	Bus to ESAC (ESAC personnel)		

List of posters:

Deborah	Baines	pyESASky: An ESASky widget for Jupyter
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