PROGRAM 4th OUTER-PLANET MOON MAGNETOSPHERE WORKSHOP

March 31-April 4, 2025, University of Cologne, Germany

Monday	ld		Title	Primary authors	type	length category
vioriday	13:30		Welcome	Saur		
	14:00 14:30		Moon-Magnetosphere Interactions: A Tutorial Review The least hof the Lefentral to Section I Sharest rejection using Lune LIVS	Fran Bagenal	Tutorial	30 moon plasma 15 moon farfield
	14:45		The length of the Io footprint: Spectral characterization using Juno-UVS Monitoring of Jupiter's magnetosphere with the moon-induced aurora during the Juno 6	Vincent Hue Alessandro Moirano	Oral Oral	15 moon farfield
	15:00		Juno's observations of the vertical and temporal H3+ structure at the auroral footprint o		Oral	15 moon farfield
Coffee Br	15:45	229	Moon-magnetosphere coupling at Jupiter: insights from JADE-E observations	Jonas RABIA	Oral	15 moon farfield
	16:00		The Electrodynamic Interaction Between Io and Jupiter: Insights from Juno Observations		Oral	15 moon farfield
	16:15		Summary of session and discussion of open-questions: Moon-farfield		Discussion	
	16:45 17:15		A new view of the Galilean satellites from Juno's close flybys Juno's exploration of Jupiter's inner moons, radiation belts and rings	Jamey Szalay Scott Bolton	Tutorial Oral	30 moon plasma 15 moon plasma
	17.13	21/	Julio's exploration of Jupiter's filler filoons, fauration betts and filligs	Scott Borton	Orai	13 moon plasma
uesday	09:00	251	The atmospheres of Jupiter's icy satellites	Philippa Molyneux	Tutorial	30 moon
	09:30		Constraining the atmosphere of Europa using the Space Telescope Imaging Spectrograph		Oral	15 moon
	09:45		Solving the Heat Equation for Europa: Surface Temperature and Heat Flux Modeling	Anne-Cathrine Dott	Oral	15 moon
	10:00 10:30		Ionospheres of icy moons Ion-neutral chemistry at Ganymede	Marina Galand Arnaud Beth	Tutorial Oral	30 moon plasma 15 moon plasma
	10.50	132	ion neatral chemistry at outsymeac	randad Setti	O.u.	15 moon prasma
offee Br						
	11:15 11:45		A Tutorial on Numerical Simulations of Moon-Magnetosphere Interactions Modeling Ganymede's Magnetic Field and Surface Charging Processes	Xianzhe Jia Betty Pei-Chun Tsai	Tutorial Oral	30 moon plasma 15 moon plasma
	12:00		Simulations of energetic ion dropouts during the Juno flyby of Europa	Hans Huybrighs	Oral	15 moon plasma
	12:15		Summary of session and discussion of open-questions: Moon-local 1		Discussion	n 15 moon plasma
unch osters fi	from 14:00-1	7:00 / 0	Coffee 15:00			
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	09:00 09:30		Modelling Earth's magnetic field from space - separation of the various source contributi Motionally induced magnetic fields in Earth's oceans	i Nils Olsen Jakub Velímský	Tutorial Invited	30 induction/Earth 20 induction/earth
	09:50		New global conductivity model of the Earth's mantle constrained by the joint inversion of		Oral	15 induction/earth
	10:05		The inversion of ocean-induced magnetic signals to determine transport and heat	Aaron Hornschild	Invited	20 induction/earth
offee B-	10:25	250	Investigating the interior of Ganymede, Callisto and Europa with JUICE	Gabriel Tobie	Oral	20 moon interior over
offee Br	reak 11:15	200	Overview of Magnetic Induction in the Solar System's Icy Moons	Steven Vance	Oral	30 induction
	11:45		Induction and Motional Induction in the Satellite Oceans	Robert Tyler	Oral	15 induction
	12:00		Magnetic field induced by convective flow in Ganymede's subsurface ocean	Libor Šachl	Oral	15 induction
	ntil 14:00 fol onference Dir		by an excursion			
hursday						
	09:00 09:15		Quantitative Constraints on Europa's Subsurface Ocean using Electromagnetic Induction Would magnetic induction effects allow detecting salinity gradients or zonal flows in Europa's Europa and Europa and Europa and Europa		Oral Oral	15 induction 15 induction
	09:30		Driving zonal flows in Europa's ocean by magnetic induction	Ilse de Langen	Oral	15 induction
	09:45		Stronger Evidence of a Subsurface Ocean within Callisto from a Multifrequency Investigation	Corey Cochrane; Steve Vance	Oral	15 induction
	10:00		Induction studies at Io based on observations of its aurora	Lorenz Roth	Invited	20 induction
	10:15 10:30	253	Can Europa's subsurface ocean be detected by its atmospheric glow? Summary of session and discussion of open questions: Induction	Stephan Schlegel	Oral Discussion	15 induction n 30 induction
offee Br			,			
	11:30		Analyze Io's atmosphere and environment using HST STIS spectral data	Anatol Große-Schware	Oral	15 moon
	11:45 12:00		Ion Pick-up around Io in the Galileo Era Extended Regions of Energetic Proton Losses around Io: Observations from Five Galileo Fi	Martin Volwerk LSebastian Cervantes	Oral Oral	15 moon plasma 15 moon plasma
	12:15		How does lo transfer mass to the lo Plasma Torus? Is there a direct link to volcanic erupti		Oral	15 moon
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	14:00	210	Titan's Induced magnetosphere from plasma wave, magnetic field and particle observation	Quentin Nenon	Oral	15 moon plasma
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