

Agenda

Sunday, June 2nd, Sakura Hall, Katahira Campus

15:00-18:00 **Reception**

Monday, June 3rd, Sakura Hall, Katahira Campus

Invited Talks: 25 min (20 min presentation + 5 min discussion)

Abstract

Contributed Talks: 15 min (12 min + 5 min)

(*): Presented by a co-author

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08:30- **Reception**

Opening

09:00-09:05 Yasumasa Kasaba Opening Remarks

Aurora - In situ, Juno's Recent Chair: Fran Bagenal Result

09:05-09:20 Scott Bolton Juno's Exploration of Jupiter's Magnetosphere 19

09:20-09:45 George Clark **(Invited)** Juno/JEDI highlights and new mysteries of Jupiter's powerful and dynamic auroras 20

09:45-10:10 Robert W. Ebert **(Invited)** Ion Properties in Jupiter's Polar Magnetosphere 21

10:10-10:25 Frederic Allegrini Energy Flux and Characteristic Energy of Precipitating Electrons Over Jupiter's Main Auroral Emission 22

10:25-10:40 Daniel Gershman Alfvén Waves in Jupiter's Polar Magnetosphere 23

10:40-11:10 **Break**

11:10-11:25 Jack Connerney Jupiter's Magnetosphere at the Midpoint of Juno's Mapping Mission 24

11:25-11:50 Sadie Suzanne Elliott **(Invited)** The Generation of Upward-Propagating Whistler-Mode Waves that Accelerate Upward-Moving Electrons in the Jovian Polar Cap Region 25

11:50-12:05 Ali Sulaiman Juno/Waves Observations of Flux Tubes Connected to Io's Orbit 26

12:05-12:20 Masafumi Imai High-Spatiotemporal Resolution Observations of Jupiter's Auroral Radiation from Juno 27

12:20-12:35 Corentin LOUIS Statistical Locus of Jovian Auroral Radio Sources Sampled in Situ by Juno/Waves 28

12:35-13:50 **Lunch**

13:50-14:25 **Poster Introduction**

	Fran Bagenal	Aurora - In situ, Juno's Recent Result	
	Fran Bagenal	Aurora - Theory and Modeling	
	Laurent Lamy	Aurora - Remote Sensing	
	Sarah Badman	Cassini Grand Finale & PPO	
	Daniel Santos-Costa	Radiation Belts	
14:25-14:50	Zhonghua Yao	(Invited) On the Relation Between Jovian Aurorae and the Loading/Unloading of the Magnetic Flux: Simultaneous Measurements from Juno, HST and Hisaki	29
14:50-15:05	Jonathan Nichols	Simultaneous Hubble Space Telescope and Juno Observations of a Jovian Auroral Enhancement Event	30
15:05-15:20	Alessandro Mura	Infrared Images of Jupiter Aurora: 3 Years of Juno Mission	31
15:20-15:35	Dale Weigt	Observations of Jupiter's Auroral Emission during Juno Apojoive June 2017	32
15:35-16:05		Break	
Aurora - Remote Sensing		Chair: Laurent Lamy	
16:05-16:30	Denis Grodent	(Invited) Jupiter is Alive! HST Observations of Jupiter's Aurora during Juno Orbits 18, 19 and 20.	33
16:30-16:45	John Clarke	The Mystery of Jupiter's Proton Aurora	34
16:45-17:00	Ben Swithenbank-Harris	Observation of a Secondary Dawn Auroral Arc at Jupiter	35
17:00-17:15	Kazumasa Imai	Jupiter's Decametric Riddle Arcs Observed by LWA and Juno	36

Tuesday, June 4th, Sakura Hall, Katahira Campus

08:55-09:00	LOC	Announcement	Abstract page #
Aurora - Theory & Modeling		Chair: Fran Bagenal	
09:00-09:25	Bob Lysak	(Invited) Structuring and Dynamics of Auroral Field-Aligned Currents by Alfvén Waves at Jupiter	37
09:25-09:50	Joachim Saur	(Invited) Wave-Particle Interaction in Jupiter's stressed Magnetosphere	38
09:50-10:15	Luke Moore	(Invited) Magnetosphere-Ionosphere Coupling at the Giant Planets: Effect of Hydrocarbon Ions on Ionospheric Electrical Conductance	39
Cassini Grand Finale & PPO		Chair: Sarah Badman	

10:15-10:40	Norbert Krupp	(Invited) The CASSINI Grand Finale in Saturn's Magnetosphere 2016-2017 in the View of Neutral And Charged Particles Measured by the MIMI Instrument	40
10:40-11:10		Break	
11:10-11:25	Michele Karen Dougherty	A Magnetic Perspective on the Interior of Saturn	41
11:25-11:40	Gregory Hunt	Currents Associated with Saturn's Intra-D Ring Azimuthal Field Perturbations	42
11:40-11:55	Omakshi Agiwal	Exploring the Sources of Variability in the Low-Latitude Field-Aligned Currents at Saturn Measured by the Cassini Magnetometer during the Grand Finale	43
11:55-12:10	Tom Stallard	A Last Look at Saturn during Cassini's Grand Finale: Maps of H3+ Emission, Temperature and Ion Winds	44
12:10-12:25	Nahid Chowdhury	Exploring Key Characteristics in Saturn's Infrared Auroral Emissions Using Adaptive Optics VLT-CRIRES Observations from 2013	45
12:25-12:40	Thomas Bradley	Solar Wind and Planetary Period Modulations of Reconnection Events in Saturn's Magnetotail	46
12:40-13:55		Lunch	
13:55-14:25		Discussion for Next MOP 1	
14:25-15:05	Poster Introduction		
	Tomoki Kimura	Hisaki Summary	
	Peter Delamere	Magnetic Flux and Plasma Transport, and Plasma Heating	
	Adam Masters	Structure	
	Lorenz Roth & Joachim Saur	Moon Interactions	
	Radiation Belts		
	Chair: Daniel Santos-Costa		
15:05-15:30	Yoshizumi Miyoshi	(Invited) Cross-energy Coupling Process in the Terrestrial Radiation Belts; The Arase Observations	47
15:30-15:55	Satoshi Kasahara	(Invited) Pulsating Aurora from Electron Scattering by Chorus Waves	48
15:55-16:25		Break	
16:25-16:40	Heidi Becker	Mid-Mission Developments from Juno's Radiation Monitoring Investigation	49
16:40-16:55	Virgil Adumitroaie	Magnetic Field Derived Parameters for Jovian Synchrotron Radiation Modeling	50

16:55-17:10 Anna Kotova CRAND Injection Coefficients at Saturn 51

17:10- **Poster Session**

Wednesday, June 5th, Sakura Hall, Katahira Campus

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Hisaki Summary Chair: Tomoki Kimura

09:00-09:25 Fuminori Tsuchiya **(Invited)** Variations in Jupiter's Inner Magnetosphere Seen by Hisaki: Effects of Io and the solar wind 52

09:25-09:40 Ryoichi Koga Spatial Distribution of Io's Neutral Oxygen Cloud During a Volcanically Quiet and Active Periods in 2014-2015 53

09:40-09:55 Reina Hikida Increase in Hot Electron Fraction in Jupiter's Inner Magnetosphere with Io's Volcanic Event 54

09:55-10:10 Hajime Kita Jupiter's Aurora Light Curve after 2016 Obtained from Hisaki EXCEED 55

10:10-10:25 H. Todd Smith Resolving the Titan Torus Mystery...Finally 56

10:25-10:55 **Break**

Magnetic Flux and Plasma Transport, and Plasma Heating Chair: Peter Delamere

10:55-11:20 Margaret G Kivelson **(Invited)** Plasma Heating and Transport: Jupiter and Saturn 57

11:20-11:45 Chris Paranicas (*) **(Invited)** Plasma Heating at Jupiter and Saturn 58

11:45-12:10 Abigail Azari **(Invited)** A Statistical Picture of Pitch Angles of Interchange Events at Saturn and Implications for Energization and Losses 59

12:10-12:25 Vytenis M. Vasyliunas Plasma Transport Out of the Io Torus: What Does the Observed Radial Gradient of Average Flux Tube Content Imply? 60

12:25-12:40 Peter Damiano Modeling the Interaction of Electrons and kinetic Alfvén waves in the Io plasma torus 61

12:40-13:55 **Photo & Lunch**

Hisaki PSP Lunch Meeting (ESPACE room, University House Katahira)

13:55-14:25 **Discussion for Next MOP 2: Vote**

14:25-15:00 **Poster Introduction**

Philippe Zarka Exoplanets and Stars

Bertrand Bonfond MI Coupling, Ionospheres, Dust

Xianzhe Jia Dynamics

Structure**Chair: Adam Masters**

15:00-15:15	Barry H. Mauk	A Comparative Investigation of the Leakage of Energetic Particles Across the Magnetopauses of Strongly Magnetized Planets	62
15:15-15:30	Rob J. Wilson	Electrons in the Jovian Magnetosphere as Observed by JADE-E	63
15:30-15:45	Flavien Hardy	Characterising the Structure and Compressibility of Saturn's Magnetopause	64
15:45-16:00	Ned Russell Staniland	Determining the 'Nominal Thickness and Variability of the Saturnian Magnetodisc Current Sheet	65
16:00-16:15	Hsiang-Wen (Sean) Hsu	The E-ring Asymmetry and Saturn's Noon-to-Midnight Electric Field	66

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Poster Session**Thursday, June 6th, Sakura Hall, Katahira Campus**

08:55-09:00	LOC	Announcement	Abstract page #
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Moon Interactions**Chair: Lorenz Roth and Joachim Saur**

09:00-09:25	Tom Andre Nordheim	(Invited) Charged Particle Weathering of Icy Satellites	67
09:25-09:50	Yasuhito Sekine	(Invited) How to Make a Habitable Satellite around a Gas Giant – Energy and Building Materials	68
09:50-10:15	Vincent Dols	(Invited) Interaction of Moon Atmospheres with Jupiter's magnetosphere	69
10:15-10:30	Hannes Arnold	Magnetic Signatures of a Plume at Europa During the Galileo E26 Flyby	70
10:30-10:50		Break	
10:50-11:05	Lorenz Roth	Novel HST observations of the Galilean moons Io and Ganymede, and simultaneous Juno-UVS observations of the Io footprint	71
11:05-11:20	Carley Martin	Modelling Asymmetries in Titans Flux Ropes	72
11:20-11:35	Nawapat Kaweeyanun	Favorable Conditions for Magnetic Reconnection at Ganymede's Upstream Magnetopause	73
11:35-11:50	John Leif Jørgensen	High Energy Particle Signature of the Jovian Satellites	74

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Excursion & Lunch at Matsushima

19:00-

Banquet at Kai-Sen-Ya

Friday, June 7th, **Aoba Science Hall, Aobayama**

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MI Coupling, Ionospheres, Dust Chair: Bertrand Bonfond

09:00-09:15	William Dunn	Correlations Between Jupiter's X-ray Aurora and the Outer Magnetosphere Plasma Sheet	75
09:15-09:30	Dave Constable	Numerical Modelling of Field-Aligned Currents in the Jovian Middle Magnetosphere	76
09:30-09:45	Oleg Shebanits	Magnetosphere-Ionosphere Coupling at Saturn: Conductivities of Near-Equatorial Ionosphere	77
09:45-10:00	James O'Donoghue	The Consequences of Saturn's "Ring Rain"	78
10:00-10:15	Henrik Melin	The Ionosphere of Uranus: Long-Term Cooling and Local-Time Morphology	79
10:15-10:30	Gina A. DiBraccio	Plasmoid Observation in the Magnetotail of Uranus: Implications for Plasma Convection and Downtail Mass Loss	80

10:30-11:00 **Break**

Dynamics Chair: Xianzhe Jia

11:00-11:25	Xianzhe Jia	(Invited) Recent Advances in Global Simulations of the Giant Planet Magnetospheres and Their Interactions with Moons	81
11:25-11:40	Binzheng Zhang	A Numerical Experiment of Global Jovian Magnetosphere: Initial Results from Multi-fluid Magnetohydrodynamics with Mass Loading	82
11:40-11:55	Harry Manners	A Global Survey of the Spatial Distribution of Ultra-Low-Frequency Waves with Periods ~1-100 Minutes in the Jovian Magnetosphere	83
11:55-12:10	Ruilong Guo	Dayside Magnetodisk Reconnection Processes on Saturn Revealed by Cassini	84
12:10-12:25	Benjamin Palmaerts	Origin and Triggers of the 1-hour Electron Pulsations in the Saturnian System	85

Closing

12:25-12:30	Yasumasa Kasaba	Closing Remarks
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Posters, Mon-Wed, Sakura Hall, Katahira Campus

C: “Cassini Grand Finale & PPO”, **J:** “Aurora - in situ, Juno's recent result”, **Th:** “Aurora - Theory and Modeling”, **Re:** “Aurora - Remote Sensing”, **H:** “Hisaki Summary”, **Tr:** “Magnetic Flux and Plasma Transport, and Plasma Heating”, **Ra:** “Radiation Belts”, **Mo:** “Moon Interactions”, **MI:** “MI Coupling, Ionospheres, Dust”, **S:** “Structure”, **D:** “Dynamics”, **ES:** “Exsoplanets and Stars”, **SI:** “Spacecraft and Instruments”, (*): Presented by a co-author

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2	David Piša	Time Domain Structures in Cassini's Wideband Receiver Waveforms Observed Inside the Inner Magnetosphere of Saturn	C	87
3	Geraint Jones (*)	Negative Ions in Saturn's Inner Magnetosphere	C	88
4	Duane Pontius	Saturn's Multiple, Variable Periodicities: A Dual-Flywheel Model of Thermosphere-Ionosphere-Magnetosphere Coupling	C	89
5	Benjamin Palmaerts	A Nearly-Corotating Long-Lasting Auroral Spiral at Saturn	C	90
6	David Andrews (*)	The Structure of Planetary Period Oscillations in Saturn's Equatorial Magnetosphere: Results from the Cassini Mission	C	91
7	Lina Hadid (*)	Coupling between Saturn's Ionosphere and the Rings Ionosphere around 2.5 Rs	C	92
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10	Randy Gladstone	Jupiter's Average Ultraviolet Aurora Using Juno-UVS	J	95
12	Joshua Kammer	Juno-UVS 3-D Maps of High-Energy Radiation at Jupiter	J	96
13	Zhonghua Yao	Auroral Diagnosis of Solar Wind Interaction with Jupiter's Magnetosphere	J	97
14	Vincent Hue	Observation of Auroral “Raindrops” in Jupiter's Polar Region by Juno-UVS	J	98
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15	Yan Song	Unified Theory of the Acceleration of Auroral Particles and the Formation of Discrete Auroras at Earth and Jupiter	Th	99
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17	Laurent Lamy	Uranus spin : Toward an Updated Rotation Period and SIII Longitude System	Re	101
18	Fabiola Magalhaes	Statistical Analysis of Long-term Variations of Jovian Radio Components Observed by Cassini.	Re	102
19	Sarah Badman	Transient Features in Jupiter's Polar Aurora: UV and X-ray Comparison	Re	103

20	Yasumasa Kasaba	Pulsation-like Variation of Jovian Infrared H3+ Polar Emissions Observed by Subaru 8-m	Re	104
21	Suwicha Wannawichian	Brightening Behavior of Io's Magnetic Footprint	Re	105
22	Tatphicha Promfu	Jupiter's Magnetic Field Analysis via Ganymede's Magnetic Footprint Locations	Re	106
23	Kamolporn Haewsantati	Bright Spot morphology in Jupiter's Polar Aurora	Re	107
24	Laurent Lamy	Facilitating Access to HST/Hisaki Remote Processed Observations of Saturn/Jupiter in Support to Cassini/Juno In Situ Measurements through the APIS Service	Re	108
25	Hiroaki Misawa	Expected Source Region of Jupiter's Hectometric Radiation Relating to Magnetotail Reconnection	Re	109
26	Matthew Rutala	New Insights into Jupiter's Dawn Storms	Re	110

Hisaki Summary, Chair: Tomoki Kimura

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29	Seiya Nishimura	Correlation between the Io Plasma Torus and Jovian Aurora Revealed by the EXCEED/Hisaki Mission	H	113
30	Tomoki KIMURA	Development of Ground Pipeline system for High-Level Scientific Data Products of the Hisaki Satellite Mission and Its Application to Planetary Space Weather	H	114
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33	Chihiro Tao	Jupiter's Aurora Observed by Hisaki: Intrinsic Periodic Variation	H	117
34	Kazuki Yamaguchi	Development of a Radial Diffusion Model of Jovian Inner Magnetospheric Plasma Aimed at Comparison with HISAKI Satellite Observation	H	118
35	Edward Nerney	A 2-D Io Plasma Torus Spectral Emission Model and Comparisons with UV and Ground-Based Observations	H	119

Magnetic Flux and Plasma Transport, and Plasma Heating, Chair: Peter Delamere

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37	Peter Delamere	Hybrid Simulations of Magnetodisc Rtransport driven by the Rayleigh-Taylor Instability	Tr	121
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40	Daniel Santos-Costa	Statistical Analysis of Juno Observations of > 5 MeV Electron Beams at Jupiter	Ra	124

41	Elias Roussos	A Local-Time Confined Electron Radiation Belt Generated by Saturn's F-Ring	Ra	125
42	Elias Roussos	Relativistic Charged Particles, Neutrons and Gamma Rays at Saturn: MIMI/LEMMS Measurements and GEANT4 Simulations	Ra	126
43	Yixin Sun	Spectral Signatures of Corotation Drift Resonant Acceleration in Saturn's Electron Radiation Belts.	Ra	127
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51	Camilla Harris	Multifluid MHD Simulations of Europa's Interaction with Jupiter's Magnetosphere	Mo	134
52	Frank J Crary	Europa's Interaction with the Jovian Magnetosphere: Variability in Time and Longitude	Mo	135
53	Parker Hinton	Alfvén Wave Propagation in the Io Plasma Torus	Mo	136
54	Hannes Arnold	A hybrid simulation study of the interaction between Europa's plumes and Jupiter's magnetosphere	Mo	137
55	Fabiola Magalhaes	Cassini/UVIS high-level database and application to the search for the Enceladus footprint	Mo	138
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59	Aljona Blöcker	MHD Modeling of the Plasma Interaction With Europa's Asymmetric Atmosphere	Mo	142
60	Fran Bagenal	The Io-Europa Space Environment	Mo	143
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MI Coupling, Ionospheres, Dust, Chair: Bertrand Bonfond

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94	Yasuhito Sekine	Jupiter Icy Moons Explorer-Science objectives by JUICE-Japan	SI	177
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96	Yasumasa Kasaba	High Frequency part in Radio & Plasma Wave Investigation (RPWI) aboard JUICE: Toward the investigation of Jupiter and Icy Moons System	SI	179
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