

International Magnetosphere Coupling IV (IMC-IV) Workshop

Monday 3 June 2024

Waves and Wave-Particle Interactions - Lecture Room 2 (16:15 - 17:45)

-Conveners: Yoshi Miyoshi; Ondrej Santolik

time	[id] title	presenter
16:15	[42] Statistical characterisation of EMIC/Pc1 waves in relation to the plasmopause based on a new Swarm L2 product	BOZÓKI, Tamás
16:20	[191] Discussion	
16:25	[43] Quasilinear and Nonlinear Interaction Between EMIC Waves and Ring Current Protons	MA, Qianli
16:30	[190] Discussion	
16:35	[44] EMIC wave occurrence and its dependence on geomagnetic conditions: Results from 7 years of Van Allen Probes observations	USANOVA, Maria
16:40	[189] Discussion	
16:45	[45] Observation of possible mode-conversion between EMIC and Magnetosonic waves in the outer magnetosphere	OJHA, Biswajit
16:50	[188] Discussion	
16:55	[46] ULF waves as the driver of pulsating proton precipitation and ionospheric disturbances via the modulation of EMIC waves	YU, Yiqun
17:00	[192] Discussion	
17:05	[47] Excitation of Second Harmonic Poloidal ULF Waves Through Drift-Bounce Resonance with Protons in the Magnetic Dip	YUE, Chao
17:10	[193] Discussion	
17:15	[48] First Observational Evidence of the Weak-to-strong Transition in Alfvénic Turbulence	ZHAO, Siqi
17:20	[194] Discussion	
17:25	[49] Investigating the Link Between Whistler-Mode Wave Properties and the Plasma Density	HARTLEY, David
17:35	[187] Discussion	

Tuesday 4 June 2024

Waves and Wave-Particle Interactions - Lecture Hall (10:00 - 11:30)

-Conveners: Yoshi Miyoshi; Ondrej Santolik

time	[id] title	presenter
10:00	[51] The effect of energy diffusion in the radiation belts	GLAUERT, Sarah
10:05	[242] Discussion	
10:10	[52] Resolution of some problems in using the quasilinear theory for calculation of diffusion coefficients in heliophysics	CUNNINGHAM, Gregory
10:15	[50] Recent developments in quasi-linear and nonlinear approaches to wave-particle interactions	ALBERT, Jay
10:25	[244] Discussion	
10:40	[53] Waves in the Inner-magnetosphere and Their Effects on Radiation Belt Electrons (WIRE)	WANG, Dedong
10:50	[243] Discussion	
11:00	[54] Response of energetic electron population to chorus waves with varying degrees of coherence	HANZELKA, Miroslav
11:05	[240] Discussion	
11:10	[55] The challenge to understand the zoo of particle transport regimes during resonant wave-particle interactions for given survey-mode wave spectra	ALLANSON, Oliver
11:15	[239] Discussion	
11:20	[56] Simultaneous enhancement of non-linear chorus and EMIC waves	MIYOSHI, Yoshizumi
11:25	[238] Discussion	

Waves and Wave-Particle Interactions - Lecture Hall (14:30 - 16:00)

-Conveners: Yoshi Miyoshi; Ondrej Santolik

time	[id] title	presenter
14:30	[63] VLF wave particle interaction status and challenges from the scope of radiation belt modeling	BOURDARIE, Sebastien
14:40	[257] Discussion	
14:50	[64] Effects of chorus on radiation belts under disturbed conditions	SANTOLIK, Ondrej
14:55	[254] Discussion	
15:00	[66] Fine Inner Structure of Quasiperiodic Emissions and Magnetospheric Line Radiation	NEMEC, Frantisek
15:10	[251] Discussion	
15:20	[67] Quasi-periodic Emissions in Saturn's magnetosphere and Their Effects on Electrons	TENG, Shangchun
15:25	[255] Discussion	
15:30	[68] Lightning-driven MeV electron microbursts in the inner radiation belt	BLUM, Lauren
15:35	[258] Discussion	

15:40	[69] Electron Scattering by Electrostatic Electron Cyclotron Harmonic Waves During Storm-Time	STOLL, Katja
15:45	[256] Discussion	

Wednesday 5 June 2024

Waves and Wave-Particle Interactions - Lecture Hall (14:30 - 16:00)

-Conveners: Ondrej Santolik; Yoshi Miyoshi