



# ISSS-15 + IPELS-16

## Monday, 5 August 2024

### IPELS: 1 (invited & contributed talks) (13:30 - 15:30)

time	[id] title	presenter
13:30	[114] Recent results and future plans for space and astrophysical plasma studies at the Wisconsin Plasma Physics Laboratory	FOREST, Cary
13:55	[61] Investigations of E×B velocity shear-driven waves and the significance of ambipolar electric fields in the laboratory and magnetotail	DUBOIS, Ami
14:20	[67] Observation of the standard magnetorotational instability in a modified Taylor-Couette cell	WANG, Yin
14:45	[133] Space and Laboratory Experiments Using Plasma Waves to Detect Satellites in Low Earth Orbit	BERNHARDT, Paul
15:10	[62] Energetic electron tail production from binary encounters of discrete electrons and ions in a sub-Dreicer electric field	BELLAN, Paul

### IPELS: 2 (contributed talks) (16:00 - 18:00)

time	[id] title	presenter
16:00	[87] Study of Electron Acceleration and Ion Acoustic Waves during Low-beta Magnetic Reconnection using Laser-powered Capacitor Coils	JI, Hantao
16:20	[22] Laboratory study of lunar magnetic reconnection with laser-driven mini-magnetospheres	ROVIGE, Lucas
16:40	[33] High Power Ion Heating by Magnetic Reconnection in Two Merging Toroidal Plasmas with High Guide Field	ONO, Yasushi
17:00	[42] Experimental verification of Petschek's double shock structure in a two-fluid magnetic reconnection layer	YAMADA, Masaaki
17:20	[19] Perpendicular subcritical shock structure in a collisional plasma	RUSSELL, Danny R
17:40	[96] Strongly Non-linear Alfvén Wave Interactions in a Laboratory Experiment	CHEN, Christopher

# Wednesday, 7 August 2024

## **IPELS: 3 (invited & contributed talks) (13:30 - 15:30)**

time	[id] title	presenter
13:30	[116] Magnetic reconnection plasma thruster	EBRAHIMI, Fatima
13:55	[45] Small-scale dynamos create large-scale coherence in young galaxies	KRIEL, Neco
14:20	[122] Electron Dynamics throughout the Solar System	DECA, Jan
14:45	[49] Magnetic Heating during State Transitions in Black Hole Accretion Flows	MATSUMOTO, Ryoji
15:10	[29] Using the Magnetized Dusty Plasma Experiment (MDPX) to evaluate dust cloud detection between spacecraft	THOMAS, Edward

## **IPELS: 4 (contributed talks) (16:00 - 18:00)**

time	[id] title	presenter
16:00	[132] Turbulence and transport from multiple entangled plasma pressure filaments in a magnetized plasma	SYDORA, Richard
16:20	[30] Type III solar radio emission generated by current-driven Langmuir oscillations: Theory, simulation and Parker Solar Probe observations	SAUER, Konrad
16:40	[43] A new regime of plasma wave modes in Jupiter's polar cap	LYSAK, Robert
17:00	[15] Electrostatic waves and electron holes in PIC simulations of the Earth's bow shock	BOHDAN, Artem
17:20	[51] Role of magnetic fields on Rayleigh-Taylor instability	KALLURI, Manohar Teja
17:40	[106] Magnetogenesis via the canonical battery effect	YOON, Young Dae