



	Material Technology Cathodes, Gimbals	Commercial Propulsion Needs	Hall Thrusters 1	Hall Thrusters 2
	HS6	SR4	SR6	SR7
11.00	<b>A776</b> Characterization of a 100 A-class LaB <sub>6</sub> hollow cathode for high-power Hall thrusters <i>S. Mazouffre</i>	×	<b>A246</b> Hall Thruster Near-Field Plume Characterization Through Optical Emission Spectroscopy <i>M. Nakles</i>	<b>A720</b> Numerical studies of the ExB electron drift instability in Hall thrusters <i>F. Taccogna</i>
11.15	<b>A845</b> Total Sputter Yield Characterization of Various Spacecraft Materials <i>J. A. Young</i>	×	<b>A515</b> Development and Validation of a Time-Resolved Ion Energy Distribution Diagnostic <i>M. Baird</i>	<b>A437</b> 3D simulation of rotating spoke in a wall-less Hall thruster <i>K. Matyash</i>
11.30	<b>A929</b> Additively Manufactured Hollow Cathode Keepers with Integral Radiation Shielding <i>M. S. Mcdonald</i>	×	<b>A734</b> HK40 Hall Thruster Plume Plasma Measurements with Retarding Potential Analyzer, Faraday Probe and Langmuir Probe <i>U. Kokal</i>	<b>A347</b> Study of the Electron Cyclotron Drift Instability inside Hall Effect Thrusters with a fluid code <i>V. Joncquieres</i>
11.45	<b>A155</b> Onset criteria for the plume mode oscillation in hollow cathodes <i>M. Georgin</i>	×	<b>A387</b> Study of two different discharge modes in Hall thruster <i>I. Khmelevskoi</i>	<b>A726</b> Development of 1D Magneto-static Two-Fluid Plasma Simulation of a Hall Effect Thruster <i>R. Sahu</i>
12.00	<b>A667</b> The neutral gas properties in orifice hollow cathode before its ignition <i>Y. Jia</i>	Lunch Break & Poster Session		
14.00	Plenary Lecture BEPI Colombo			Audimax
15.00	<b>A823</b> BEPI- Colombo Electric Propulsion in Mercury <i>R. Velasco Valencia</i>	×	<b>A841</b> Non-intrusive Characterization of the Wear of the HERMeS Thruster Using Optical Emission Spectroscopy <i>T. Gray</i>	<b>A733</b> Coupling Non-Maxwellian View Factor Model to Octree Based Particle VDF Compression for Accelerated Spacecraft-Plume Simulation <i>R. Martin</i>
15.15	<b>A305</b> BepiColombo - Solar Electric Propulsion System Operations for the Transit to Mercury <i>C. Steiger</i>	×	<b>A932</b> Internal Probe Studies of a Low Voltage Hall Thruster <i>J. L. Ross</i>	<b>A880</b> Particle-In-Cell model of the dynamic of the electrons between the two walls of Hall thrusters including realistic secondary electron emission data <i>M. Villemant</i>
15.30	<b>A606</b> BepiColombo – The Mercury Transfer Module <i>H. Gray</i>	×	<b>A384</b> Incoherent Thomson scattering investigations of a low-power Hall thruster in standard and magnetically-shielded configurations <i>B. Vincent</i>	<b>A215</b> Numerical solutions of Density Gradients Instability in a Hall Thruster Plasmas <i>S. Singh</i>

Ion Thrusters	MPD Thrusters	Innovative / Advanced Propulsion Concepts	Thruster Concepts
HS5	SR8	HS3	HS2
<b>A618</b> Test Facility for EMC-Characterization of Electric Thrusters in Operation using an evacuated Reverberation Chamber <i>R. Thüringer</i>	<b>A588</b> Experimental study of the discharge characteristic in AF-MPDT ignition <i>Y. Wang</i>	<b>A333</b> High-Specific-Impulse Operation in Diverging Magnetic Field Electrostatic Thrusters with Argon Propellant <i>D. Ichihara</i>	<b>A875</b> H2020 MINOTOR: Magnetic Nozzle Electron Cyclotron Resonance Thruster <i>D. Packan</i>
<b>A738</b> Determination of the Beam Divergence of a Gridded Ion Thruster Using the AEPD Platform <i>F. Scholze</i>	<b>A759</b> Characterization and Improvement of Thrust Balance for High Power Applied Field MPD Thrusters <i>G. Herdrich</i>	<b>A382</b> Metallic Ion Thruster using Magnetron E-Beam bombardment <i>K. -Y. Chen</i>	<b>A897</b> HiperLoc-EP: A new approach for SmallSats Electric Propulsion <i>J. Stark</i>
<b>A777</b> Planar probe array for bidimensional mapping of the ion flux profile of a miniaturized ion thruster <i>L. Habl</i>	×	<b>A385</b> Thrust Generation in Electrostatic-Magnetic-Hybrid Plasma Thruster <i>A. Sasoh</i>	<b>A941</b> Development of the Xenon Cold Gas Thruster to Support All-Electric Propulsion Missions <i>I. Johnson</i>
<b>A167</b> Near Field Probe Measurements in the Plume of a NEXT Ion Thruster <i>N. Arthur</i>	×	<b>A475</b> Design and Performance Test of a RF Plasma Bridge Neutralizer <i>D. Spemann</i>	×
	<b>A195</b> A Novel Laser Ablation Magneto-plasmadynamic Thruster <i>Y. Zhang</i>	<b>A488</b> Inductive Plasma Thruster (IPT) for an Atmosphere-Breathing Electric Propulsion System: design and set in operation <i>F. Romano</i>	<b>A467</b> Performance Analysis of the Capacitively Coupled Radio Frequency Thruster <i>A. Quraishi</i>
<b>A175</b> Design and Experimental Study of an Miniature Ion Thruster <i>J. X. Ren</i>	<b>A313</b> Development of High Power Magnetoplasmadynamic Thrusters in BICE and Beihang University <i>Y. Li</i>	<b>A500</b> Review of Dualmode/Multimode Space Propulsion <i>J. Rovey</i>	<b>A577</b> Proposal and Performance Evaluation of Microwave-Driven In-Tube Accelerator Concept <i>M. Takahashi</i>
<b>A238</b> Preparation of Space Experiment with Electric Propulsion System Based on Radio-Frequency Ion Thruster aboard the International Space Station <i>R. Akhmetzhanov</i>	<b>A542</b> Applied-Field MPD Thruster with High Current Heater-less Hollow Cathode <i>J. Yamasaki</i>	<b>A552</b> Interaction of Ultraviolet Light-emitting Diodes and Solid Polymers for Micropropulsion Applications <i>H. Horisawa</i>	<b>A594</b> Indirect electrothermal acceleration of a cold gas jet through interaction of an arcjet exhaust flow for space propulsion applications <i>Y. Arai</i>