



| | Material Technology Cathodes, Gimbals | Field Emission / Colloid Thrusters | Hall Thrusters 1 | Hall Thrusters 2 |
|-------|---|---|---|--|
| | HS6 | SR5 | SR6 | SR2 |
| 10.45 | A331 An Axisymmetric Direct Kinetic Solver for Simulation of Hollow Cathode Plasmas <i>A. R. Vazsonyi</i> | × | A779 Development of low-power micro cylindrical hall thruster “SCHT-1” <i>T. Ikeda</i> | A294 EP plasma plume in orbit: Diagnostics and analysis correlation <i>J. Laube</i> |
| 11.00 | A452 A Plasma Model for Orificed Hollow Cathodes <i>M. Panelli</i> | A805 CLIMB: Exploration of the Van Allen Belt by CubeSats <i>C. Scharlemann</i> | A776 Characterization of a 100 A-class LaB ₆ hollow cathode for high-power Hall thrusters <i>S. Mazouffre</i> | A639 Coupling of an all-electric spacecraft with its plasma plume and its environment <i>S. Hess</i> |
| 11.15 | A914 Validation of a drift diffusion model for a hollow cathode <i>S. Gabriel</i> | A724 Recent flight data of the IFM Nano Thruster used for LEO orbit raising <i>D. Krejci</i> | A627 Experimental investigations and performance optimisation of the Halo thruster <i>S. Masillo</i> | A833 Simulation of plasma plume experiments with Hall Thrusters: on-ground chamber effects on measurements and extrapolation to in-flight situation <i>P. Sarrailh</i> |
| 11.30 | A781 A One-Dimensional model for Hollow Cathode Orifice lifetime prediction <i>F. Bosi</i> | A895 LISA Colloid Microthruster Technology Development Plan and Progress <i>J. Ziemer</i> | × | A858 Thruster Plume and Spacecraft Interaction Analysis by 3D Electrostatic Code for 4.5-kW-Class Hall Thruster <i>T. Muranaka</i> |
| 11.45 | × | × | × | A473 Parallel codes using particles decomposition and view factor model methods for the particle in cell-Monte Carlo collision (PIC-MCC) simulation on cylinder hall thruster <i>R. Pan</i> |
| 12.00 | Lunch Break | | | |
| 13.30 | Plenary Lecture → see page 10 The Role of EP in Leo Chaired by M. Walker / R. Spears | | | |
| | 1st Chair F. Bosi 2nd Chair – | 1st Chair D. Krejci 2nd Chair L. Massotti | 1st Chair T. Misuri 2nd Chair A. Mishra | 1st Chair P. Peterson 2nd Chair L. Wei |
| 15.00 | A783 Numerical modeling and incoherent Thomson scattering measurements of a 5A cathode with LaB6 emitter <i>L. Garrigues</i> | A196 Droplets emission from FEEP and colloids thrusters: modelling of droplets dynamics and interaction with spacecraft body <i>M. Villemant</i> | A336 The research of the modified SPT-70 thruster parameters and characteristics <i>A. Markov</i> | A318 Coupled Simulation of Two-Dimensional Hybrid Hall Thruster Models <i>R. Kawashima</i> |

| Ion Thrusters | Resistojets/ Arcjets | Innovative Concepts | Power Processing Developments | Thruster Concepts |
|---|---|---|---|---|
| HS5 | SR4 | HS3 | SR3 | HS2 |
| A143 Development of the Miniature Xenon Ion Thruster with Hollow Cathode Operation <i>S. Samples</i> | × | A225 Development Progress of an Adaptable Deorbit System for Satellite Constellations <i>J. Skalden</i> | × | A913 Development of a High Voltage Power Process Unit for a CubeSat Electrospray Thruster <i>C. Ma</i> |
| × | A390 Performance Theory and Development of a Resistojet Based Hybrid Electro-Chemical Thruster <i>G. Coral</i> | × | A930 13kW Advanced Electric Propulsion System Power Processing Unit Development <i>E. Soendker</i> | × |
| × | × | × | A937 Research on a controlled high voltage power supply for Power Processing Unit <i>Q. Kang</i> | × |
| × | × | × | A464 Development of compact high efficiency RF generator for inductive coupled plasma sources <i>A. Surminskii</i> | × |
| × | × | × | × | × |
| | | | | |
| 1st Chair M. Smirnova 2nd Chair V. Kozhevnikov | 1st Chair M. Micci 2nd Chair J. Skalden | 1st Chair T. Schönherr 2nd Chair E. Ahedo | × | 1st Chair Y. Yamakawa 2nd Chair – |
| A668 The Analysis of Parameter Sensitivity of Electron backstreaming failure mode for 3-grid system ion thruster <i>Y. Jia</i> | A520 Numerical Investigation of Micro-Cathodic Arc Thruster Lifetime using the PIC-DEM Method <i>L. Brieda</i> | A174 Design and preliminary experiments of the prototype of a 500J inductive pulsed plasma thruster <i>X. Li</i> | | A198 Electrodeless Helicon Plasma Thruster Employing Additional Electromagnetic Acceleration Method <i>T. Furukawa</i> |