IEPC¹⁹ Programme

	Material Technology Cathodes, Gimbals	Commercial Propulsion Needs	Hall Thrusters 1	Hall Thrusters 2
	HS6	SR4	SR6	SR2
11.00	×	×	A387 Study of two different discharge modes in Hall thruster I. Khmelevskoi	A437 3D simulation of rotating spoke in a wall-less Hall thruster K. Matyash
11.15	×	×	×	A726 Development of 1D Magneto-stat- ic Two-Fluid Plasma Simulation of a Hall Effect Thruster K. Hara
11.30	×	×	×	×
11.45	×	×	×	×

Ion Thrusters	MPD Thrusters	
HS5	SR3	
A145 Radio-frequency biasing of ion thruster grids <i>T. Lafleur</i>	×	
A507 A global performance model of Gridded Ion Thrusters E. Ahedo	×	
×	×	
×	×	

12.00	Lunch Break & Poster S	ession			
14.00	Plenary Lecture → see page 11 Audimax BEPI Colombo - The Mission Presented by Neil Wallace / Chaired by Carsten Scharlemann				
	1 st Chair J. Gonzalez del Amo 2 nd Chair N. Wallace		1 st Chair S. Mazouffre 2 nd Chair Y. Nakayama	1 st Chair N. Yamamoto 2 nd Chair H. Kamhawi	
15.00	A824 BepiColombo – A mission overview <i>N. Wallace</i>	×	A841 Non-intrusive Characterization of the Wear of the HERMeS Thruster Using Optical Emission Spectroscopy <i>T. Gray</i>	A733 Coupling Non-Maxwellian View Factor Model to Octree Based Particle VDF Compression for Accelerated Spacecraft-Plume Simulation <i>R. Martin</i>	
15.15	A305 BepiColombo - Solar Electric Propulsion System Operations for the Transit to Mercury <i>C. Steiger</i>	×	A932 Internal Probe Studies of a Low Voltage Hall Thruster J. L. Ross	A880 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>	

1 st Chair J. Brophy 2 nd Chair E. Petro	1 st Chair A. Boxberger 2 nd Chair H. Tahara A195	
A175		
Design and Experimental Study of an Miniature Ion Thruster J.X.Ren	A Novel Laser Ablation Magneto- plasmadynamic Thruster Y. Zhang	lı fe d
A238	A313	A
Preparation of Space Experiment with Electric Propulsion System Based on Radio-Frequency Ion	Development of High Power Magnetoplasmadynamic Thrusters in BICE and Beihang	R S C

Y. Li

Thruster aboard the International University

Space Station

R. Akhmetzhanov

56

Thursday 19

Innovative / Advanced Propulsion Concepts

Thruster Concepts

Development of the Xenon

Cold Gas Thruster to Support

All-Electric Propulsion Missions

XMET: Testing of an Argon/ Xenon Microwave Electrothermal

HS2

A941

I. Johnson

A608

Thruster T. Baxter 57

HS3

A382

Metallic Ion Thruster using Magnetron E-Beam mombardment K. Chen

A385

Thrust Generation in Electrostatic-Magnetic-Hybrid Plasma Thruster A. Sasoh

A475

Design and Performance Test of a RF Plasma Bridge Neutralizer D. Spemann

×

1st Chair M. Winter 2nd Chair –

488

Inductive Plasma Thruster (IPT) for an Atmosphere-Breathing Electric Propulsion System: design and set in operation F. Romano

A500

Review of Dualmode/Multimode Space Propulsion *C.Lyne*

1st Chair S. Rojas Mata 2nd Chair T. Furukawa

A467

Performance Analysis of the Capacitively Coupled Radio Frequency Thruster A. Quraishi

A577

Proposal and Performance Evaluation of Microwave-Driven In-Tube Accelerator Concept *M. Takahashi*