

Extraterrestrial Physics Division Fachverband Extraterrestrische Physik (EP)

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Overview of Invited Talks and Sessions

(Lecture halls ELP 1: HS 1.22 and ELP 6: HS 2; Poster ELP 6: Foyer)

Plenary Talk of the Extraterrestrial Physics Division

PV VII Thu 9:00– 9:45 ELP 6: HS 3+4 **Progress in solar flare modeling** — ●RONY KEPPENS

Invited Talks

EP 1.1 Mon 14:30–15:00 ELP 1: HS 1.22 **Gravity wave vertical coupling from the troposphere to the thermosphere** — ●MARKUS RAPP, BERND KAIFLER, NATALIE KAIFLER, ANDREAS DÖRNBRACK, SONJA GISINGER, ROBERT REICHERT, STEFANIE KNOBLOCH, HELLA GARNY

EP 2.3 Tue 15:00–15:30 ELP 1: HS 1.22 **Interdisciplinary science through space plasma physics: the example of Jupiter’s radiation belts** — ●ELIAS ROUSSOS

EP 2.8 Tue 17:00–17:30 ELP 1: HS 1.22 **Learning more about planets: What we expect from PLATO** — ●HEIKE RAUER

EP 3.1 Wed 11:00–11:30 ELP 1: HS 1.22 **Arne Richter, Rekonnexion und das ebenso wechselhafte Schicksal der AEF** — ●JÖRG BÜCHNER

EP 3.2 Wed 11:30–12:00 ELP 1: HS 1.22 **The Sun in Focus: Current Findings and Challenges in Solar Physics** — ●MARKUS ROTH

EP 3.3 Wed 12:00–12:30 ELP 1: HS 1.22 **Vortical motions in the solar atmosphere: observations, physics, cause and effect** — ●OSKAR STEINER, JOSÉ ROBERTO CANIVETE CUISSA, FABIO RIVA, GANGADHARAN VIGEESH

Invited Talks of the joint Symposium Plasmas in the Solar System (SYPS)

See SYPS for the full program of the symposium.

SYPS 1.1 Thu 11:00–11:30 ELP 6: HS 4 **Energetic Particles in the Turbulent Heliosphere** — ●HORST FICHTNER

SYPS 1.2 Thu 11:30–12:00 ELP 6: HS 4 **Persistent solar wind forcing of the F2-region ionosphere observed at Tromsø** — ●CLAUDIA BORRIES, PELIN IOCHEM

SYPS 1.3 Thu 12:00–12:30 ELP 6: HS 4 **In-orbit diagnostics for artificial plasmas created by electric propulsion systems: The Heinrich Hertz Satellite Mission** — ●THOMAS TROTTEBERG

SYPS 1.4 Thu 12:30–13:00 ELP 6: HS 4 **Plasma-based space propulsion: status and scientific challenges** — ●KRISTOF HOLSTE

Sessions

EP 1.1–1.8 Mon 14:30–17:50 ELP 1: HS 1.22 **Near-Earth Space and Space Weather**

EP 2.1–2.13 Tue 14:30–18:45 ELP 1: HS 1.22 **Planets in their Environment**

EP 3.1–3.3	Wed	11:00–12:30	ELP 1: HS 1.22	Sun and Heliosphere I with Arne-Richter Lecture
EP 4	Wed	12:45–13:45	ELP 1: HS 1.22	Members' Assembly / Mitgliederversammlung
EP 5.1–5.6	Wed	14:15–15:45	ELP 1: HS 1.22	Astrophysics
EP 6.1–6.9	Wed	16:30–18:30	ELP 6: Foyer	Postersession
EP 7.1–7.13	Thu	14:00–17:45	ELP 6: HS 2	Sun and Heliosphere II

Members' Assembly of the Extraterrestrial Physics Division

Wednesday 12:45–13:45 ELP 1: HS 1.22