

Extraterrestrial Physics Division Fachverband Extraterrestrische Physik (EP)

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Overview of Invited Talks and Sessions (Lecture halls ZHG101 and ZHG005; Poster ZHG Foyer 1. OG)

Plenary Talk of EP

PV I Mon 11:30–12:15 ZHG011 **The solar magnetic field and variability** — ●SAMI K. SOLANKI

Invited Talks

EP 1.1	Mon	16:45–17:15	ZHG005	The new planet formation theory — ●JOANNA DRAZKOWSKA
EP 2.1	Mon	16:45–17:15	ZHG101	Sunrise III 2024: Flight and first scientific results — ●ANDREAS KORPI-LAGG, H.N. SMITHA, SAMI K. SOLANKI, ACHIM GANDORFER, ALEX FELLER, TINO RIERTHMÜLLER, PIETRO BERNASCONI, THOMAS BERKEFELD, JOSE CARLOS DEL TORO INIESTA, YUKIO KATSUKAWA, SUNRISE III TEAM
EP 3.1	Tue	13:45–14:15	ZHG005	Atmospheric modelling from ground to lower thermosphere — ●CLAUDIA STEPHAN
EP 3.4	Tue	14:45–15:15	ZHG005	Beauty and hazards created by the terrestrial magnetosphere — ●ELENA KRONBERG
EP 4.1	Tue	13:45–14:15	ZHG101	The Solar Orbiter Mission and the Polarimetric and Helioseismic Imager instrument: new opportunities for novel science — ●GHERARDO VALORI
EP 5.3	Tue	16:45–17:15	ZHG005	Heliosphere as a natural laboratory of turbulence and plasma nonlinearities — ●YASUHIITO NARITA
EP 6.1	Tue	16:15–16:45	ZHG101	Decoding coronal loops: Structure and dynamics — ●SUDIP MANDAL
EP 9.1	Wed	16:15–16:45	ZHG005	A JWST View of Exoplanet Atmospheres: Everything We Dreamed Of, and More — ●LAURA KREIDBERG
EP 12.1	Thu	16:15–16:45	ZHG101	The Influence of Intermittent Turbulence on Solar Energetic Particle Transport: Modelling and Observations — ●FREDERIC EFFENBERGER
EP 13.1	Fri	9:00– 9:30	ZHG101	High-Mass X-Ray Binaries: Living Together with a Black Hole — ●LIDIA OSKINOVA
EP 15.1	Fri	13:30–14:00	ZHG101	Nucleosynthesis of heavy elements in the hot and dense plasmas of explosive astrophysical environments — ●DANIEL SIEGEL

Invited Talks of the joint Symposium SMuK Dissertation Prize 2025 (SYMD)

See SYMD for the full program of the symposium.

SYMD 1.1	Mon	14:15–14:45	ZHG011	Fluid-dynamic description of heavy-quark diffusion in the quark-gluon plasma — ●FEDERICA CAPELLINO
SYMD 1.2	Mon	14:45–15:15	ZHG011	Fast and faithful effective-one-body models for gravitational waves from generic compact binaries — ●ROSSELLA GAMBA
SYMD 1.3	Mon	15:15–15:45	ZHG011	Nuclear Structure Near Doubly Magic Nuclei — ●LUKAS NIES
SYMD 1.4	Mon	15:45–16:15	ZHG011	Optimisation strategies for proton acceleration from thin foils with petawatt ultrashort pulse lasers — ●TIM ZIEGLER

Invited Talks of the joint Symposium Turbulence in Space and Fusion Plasmas (SYSF)

See SYSF for the full program of the symposium.

SYSF 1.1	Wed	13:45–14:15	ZHG101	Addressing turbulence questions in the Wendelstein 7-X stellarator device - a combined experimental and theoretical approach — •JOSEFINE PROLL, PAUL MULHOLLAND, MJ PUESCHEL, MAIKEL MORREN, GAVIN WEIR, KSENIA ALEYNIKOVA, ADRIAN VON STECHOW, PAVLOS XANTHOPOULOS, GABRIEL PLUNK, THE W7-X TEAM
SYSF 1.2	Wed	14:15–14:45	ZHG101	Particle acceleration and transport in astrophysical, magnetized turbulent plasmas — •MARTIN LEMOINE
SYSF 1.3	Wed	14:45–15:15	ZHG101	Turbulence in the young solar wind, results from Solar Orbiter and Parker Solar Probe — •ROBERT WICKS, UTSAV PANCHAL, JULIA STAWARZ, STEFAN LOTZ, DU TOIT STRAUSS, AMORE NEL
SYSF 1.4	Wed	15:15–15:45	ZHG101	Digital Solutions for EUROfusion — •VOLKER NAULIN

Sessions

EP 1.1–1.4	Mon	16:45–18:10	ZHG005	Planets and Small Bodies I
EP 2.1–2.5	Mon	16:45–18:15	ZHG101	Sun and Heliosphere I
EP 3.1–3.6	Tue	13:45–15:45	ZHG005	Near-Earth Space I
EP 4.1–4.7	Tue	13:45–15:45	ZHG101	Sun and Heliosphere II
EP 5.1–5.6	Tue	16:15–18:15	ZHG005	Near-Earth Space I & Planets and Small Bodies II
EP 6.1–6.7	Tue	16:15–18:15	ZHG101	Sun and Heliosphere III
EP 7.1–7.4	Wed	11:00–12:05	ZHG005	Planets and Small Bodies III
EP 8	Wed	12:15–13:30	ZHG101	Members' Assembly
EP 9.1–9.7	Wed	16:15–18:15	ZHG005	Exoplanets and Astrobiology
EP 10.1–10.22	Thu	11:00–12:30	ZHG Foyer 1. OG	Poster Session
EP 11.1–11.8	Thu	13:45–15:45	ZHG101	Sun and Heliosphere IV
EP 12.1–12.6	Thu	16:15–18:00	ZHG101	Sun and Heliosphere V
EP 13.1–13.5	Fri	9:00–10:30	ZHG101	Astrophysics I
EP 14.1–14.6	Fri	11:00–12:30	ZHG101	Astrophysics II
EP 15.1–15.9	Fri	13:30–16:00	ZHG101	Astrophysics III

Members' Assembly of the Extraterrestrial Physics Division

Wed 12:15–13:30 ZHG101