

## Extraterrestrial Physics Division Fachverband Extraterrestrische Physik (EP)

Miriam Sinnhuber  
Karlsruher Institut für Technologie  
Hermann-von-Helmholtz-Platz 1  
76344 Eggenstein-Leopoldshafen  
miriam.sinnhuber@kit.edu

### Overview of Invited Talks and Sessions

(Lecture hall EP-H1)

#### Plenary and Prize Talks related to EP

SYAW 1.2	Wed	14:40–15:10	Audimax	<b>Astronomy at Highest Angular Resolution - Adaptive Optics, Interferometry and Black Holes</b> — ●FRANK EISENHAUER
PV VIII	Thu	9:45–10:30	Audimax	<b>The Sun as a source of high-energy particles</b> — ●RAMI VAINIO

#### Special topic day T/EP: Astroparticles – From the source to the detector

EP 8.1–8.3	Thu	11:00–12:30	T-H15	<b>Astroparticles: Invited talks (joint session T/EP)</b>
EP 10.1–10.4	Thu	14:00–15:40	T-H15	<b>Astroparticles: Invited topical talks (joint session T/EP)</b>
EP 11.1–11.9	Thu	16:15–18:30	EP-H1	<b>Astroparticles: From the source to the detector (joint session EP/T)</b>

#### Invited Talks

EP 1.1	Mon	14:00–14:30	EP-H1	<b>Asteroseismology of red-giant stars</b> — ●SASKIA HEKKER
EP 2.3	Mon	16:45–17:15	EP-H1	<b>Cloudy with a hint of magnetic fields</b> — ●LUDMILA CARONE
EP 3.1	Tue	11:00–11:30	EP-H1	<b>A new era of Venus exploration - seen Venus in a new light</b> — ●JÖRN HELBERT, MELINDA DARBY DYAR, GIULIA ALEMANNI, ALESSANDRO MATTURILLI, NILS MÜLLER, DORIS BREUER, VEM ON VERTIAS TEAM, VENSPEC ON ENVISION TEAM
EP 4.1	Tue	14:00–14:30	EP-H1	<b>Exploration of the Jupiter system with a small submillimetre wave telescope onboard the JUICE satellite</b> — ●PAUL HARTOGH
EP 5.1	Tue	16:15–16:45	EP-H1	<b>Investigating Earth's atmosphere and ionosphere from space: How GNSS radio occultation measurements contribute to monitor the atmosphere in a high spatial resolution</b> — ●CHRISTINA ARRAS, ANKUR KEPKAR, JENS WICKERT
EP 5.5	Tue	17:30–18:00	EP-H1	<b>Solar extreme events and their impact on the middle atmosphere</b> — ●THOMAS REDDMANN, MONALI BORTHAKUR, MIRIAM SINNHUBER, ILYA USOSKIN, JAN-MAIK WISSING
EP 6.1	Wed	11:00–11:30	EP-H1	<b>Three-dimensional topology-driven magnetic reconnection</b> — ●RAQUEL MÄUSLE, JEAN-MATHIEU TEISSIER, WOLF-CHRISTIAN MÜLLER
EP 12.1	Fri	11:00–11:30	EP-H1	<b>Linking Solar Eruptions and Energetic Particles through Observations and Modeling</b> — ●FREDERIC EFFENBERGER
EP 12.4	Fri	12:00–12:30	EP-H1	<b>Solar Orbiter: two years of operations and first results</b> — ●FREDERIC SCHULLER, ALEXANDER WARMUTH, GOTTFRIED MANN

## Invited Talks of the joint symposium SMuK Dissertation Prize 2022 2022 (SYMD)

See SYMD for the full program of the symposium.

SYMD 1.1	Mon	14:00–14:25	Audimax	<b>Timeless Quantum Mechanics and the Early Universe</b> — •LEONARDO CHATAIGNER
SYMD 1.2	Mon	14:25–14:50	Audimax	<b>First tritium <math>\beta</math>-decay spectrum recorded with Cyclotron Radiation Emission Spectroscopy (CRES)</b> — •CHRISTINE CLAESSENS
SYMD 1.3	Mon	14:50–15:15	Audimax	<b>Watching the top quark mass run - for the first time!</b> — •MATTEO M. DEFRANCHIS, KATERINA LIPKA, SVEN-OLAF MOCH
SYMD 1.4	Mon	15:15–15:40	Audimax	<b>Towards beam-quality-preserving plasma accelerators: On the precision tuning of the wakefield</b> — •SARAH SCHRÖDER

## Invited Talks of the joint Awards Symposium (SYAW)

See SYAW for the full program of the symposium.

SYAW 1.1	Wed	14:10–14:40	Audimax	<b>Wie überprüft man die Ziele der Lehramtsausbildung Physik?</b> — •HORST SCHECKER
SYAW 1.2	Wed	14:40–15:10	Audimax	<b>Astronomy at Highest Angular Resolution - Adaptive Optics, Interferometry and Black Holes</b> — •FRANK EISENHAUER
SYAW 1.3	Wed	15:10–15:40	Audimax	<b>Turbulence in one dimension</b> — •ALEXANDER M. POLYAKOV

## Sessions

EP 1.1–1.6	Mon	14:00–15:45	EP-H1	<b>Astrophysics</b>
EP 2.1–2.9	Mon	16:15–18:45	EP-H1	<b>Astrophysics / Exoplanets and Astrobiology</b>
EP 3.1–3.7	Tue	11:00–13:00	EP-H1	<b>Planets and Small bodies</b>
EP 4.1–4.6	Tue	14:00–15:35	EP-H1	<b>Planets and Small bodies</b>
EP 5.1–5.8	Tue	16:15–18:45	EP-H1	<b>Near Earth Space</b>
EP 6.1–6.8	Wed	11:00–13:15	EP-H1	<b>Astrophysics</b>
EP 7.1–7.11	Wed	16:15–18:50	EP-H1	<b>Astrophysics</b>
EP 8.1–8.3	Thu	11:00–12:30	T-H15	<b>Astroparticles: Invited talks (joint session T/EP)</b>
EP 9	Thu	12:45–13:45	EP-MV	<b>Mitgliederversammlung Extraterrestrische Physik</b>
EP 10.1–10.4	Thu	14:00–15:40	T-H15	<b>Astroparticles: Invited topical talks (joint session T/EP)</b>
EP 11.1–11.9	Thu	16:15–18:30	EP-H1	<b>Astroparticles: From the source to the detector (joint session EP/T)</b>
EP 12.1–12.11	Fri	11:00–14:00	EP-H1	<b>Sun and Heliosphere</b>

## Annual General Meeting of the Extraterrestrial Physics Division

Thursday 12:45–13:45 EP-MV