

Gravitation and Relativity Division Fachverband Gravitation und Relativitätstheorie (GR)

Bernd Brügmann
Theoretisch-Physikalisches Institut
Friedrich-Schiller-Universität Jena
07743 Jena
bernd.bruegmann@uni-jena.de

Welcome to the annual meeting of the Gravitation and Relativity Division of the DPG in “virtual” Heidelberg. Despite the adverse circumstances, we again have a rich scientific program, including several genuine highlights. Let me also draw your attention to our General Assembly of Members on Thursday evening, starting at 19:00. I wish all of us a pleasant and informative week!

Overview of Invited Talks and Sessions

(Online lecture halls, in particular GR-H2, GR-H3)

Plenary Talk of GR

PV VII	Thu	9:00– 9:45	Audimax	New perspectives onto the Universe in the era of multi-messenger astrophysics — ●SAMAYA NISSANKE
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Invited Talks

GR 4.1	Tue	11:00–11:45	GR-H2	Pseudospectrum and black hole quasi-normal mode (in)stability — ●RODRIGO PANOSSO MACEDO
GR 4.2	Tue	11:45–12:30	GR-H2	Observable Signatures of Quantized Gravity in Quantum Optical Experiments — ●DENNIS RÄTZEL
GR 7.1	Wed	11:00–11:45	GR-H2	Numerical Relativity and Gravitational Wave Observations — ●HARALD PFEIFFER

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

See SYMD for the full program of the symposium.

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

Invited Talks of the joint symposium The Nature of Science (SYNS)

See SYNS for the full program of the symposium.

SYNS 1.1	Tue	14:00–14:30	Audimax	The Role of Nature of Science Education for Science Media Literacy — ●DIETMAR HÖTTECKE
SYNS 1.2	Tue	14:30–15:00	Audimax	What kinds of identities are deemed in/our of place in physics? — ●LUCY AVRAAMIDOU
SYNS 1.3	Tue	15:00–15:30	Audimax	Some thoughts on the status of theoretical physics — ●DANIEL HARLOW

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

Sessions

GR 1.1–1.6	Mon	9:00–11:00	GR-H2	Black Holes
GR 2.1–2.8	Mon	16:00–18:40	GR-H2	Classical Theory
GR 3.1–3.6	Mon	16:15–18:15	GR-H3	Cosmology
GR 4.1–4.2	Tue	11:00–12:30	GR-H2	General Relativity
GR 5.1–5.7	Tue	16:15–18:35	GR-H2	Gravitational Waves
GR 6.1–6.6	Tue	16:15–18:15	GR-H3	Cosmology
GR 7.1–7.1	Wed	11:00–11:45	GR-H2	General Relativity
GR 8.1–8.2	Wed	11:45–12:25	GR-H2	Gravitational Waves
GR 9.1–9.7	Wed	16:15–18:35	GR-H2	Gravitational Waves
GR 10.1–10.7	Wed	16:15–18:35	GR-H3	Foundations and Alternatives
GR 11.1–11.5	Thu	11:00–12:40	GR-H2	Relativistic Astrophysics
GR 12.1–12.4	Thu	11:00–12:40	MP-H5	Quantum gravity (joint session MP/GR)
GR 13.1–13.5	Thu	14:00–15:40	GR-H2	Numerical Relativity
GR 14.1–14.6	Thu	16:15–18:15	GR-H2	Gravitational Wave Detectors
GR 15	Thu	19:00–20:30	GR-MV	Member Assembly

Annual General Meeting of the Gravitation and Relativity Division

Thu 19:00–20:30 GR-MV

- Bericht des Vorsitzenden
- Aktuelles und Planung des kommenden Jahres
- Verschiedenes