Arbeitskreis junge DPG (AKjDPG)
Working Group "Young DPG"

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With this program, the working group young DPG wants to reach out to as many participants as possible. First-time conference attendees and those still feeling lost on the variety of topics and sessions during the conference, we offer the chance to learn about the topics of the conference on a very fundamental level in our tutorials. You are cordially invited to join them on Sunday!

Also, take note of the PhD symposium which is organised for the first time at this conference. The symposium is organised by a group of PhD students and deals with extreme gravity as a path towards new insights on fundamental physics. The symposium aims at giving Bachelor, Master as well as PhD students an insight into this topic. It also connects topics from different sections such as gravitational with nuclear physics.

Last, but not least, we will also explore the city and especially the bars of Munich and would like to welcome many participants joining us!

Overview over Invited Talks and Sessions

(HS 1, 2, and 3)

Tutorials

AKjDPG 1.1	So	16:00–17:00	HS 1	**Birth and Death of Neutron Stars** — •Hans-Thomas Janka
AKjDPG 1.2	So	17:00–18:00	HS 1	**Introduction to nuclear physics of neutron stars** — •Ingo Tews
AKjDPG 2.1	So	16:00–17:00	HS 2	**The role of Entanglement in AdS/CFT** — •Mario Flory
AKjDPG 2.2	So	17:00–18:00	HS 2	**An introduction to quantum information and entanglement** — •Tobias Osborne
AKjDPG 3.1	So	16:00–17:00	HS 3	**Plasmas at atmospheric pressure: Overview on Physics and Applications** — •Ronny Brandenburg
AKjDPG 3.2	So	17:00–18:00	HS 3	**Introduction to High Temperature Plasma Physics** — •Felix Warmer

Invited Talks of the PhD symposium - Extreme matter meets extreme gravity: compact objects as laboratories for fundamental physics (SYPS)

See SYPS for the full program of the symposium.

SYPS 1.1	Mi	15:00–15:40	HS 5	**Black-hole superradiance: Probing ultralight bosons with compact objects and gravitational waves** — •Paolo Pani
SYPS 1.2	Mi	15:40–16:10	HS 5	**Modelling and analyzing a binary neutron-star merger: Interpreting a multi-messenger picture** — •Tim Dietrich
SYPS 1.3	Mi	16:10–16:40	HS 5	**What can neutron-star mergers reveal about the equation of state of dense matter?** — •Ingo Tews

Sessions

AKjDPG 1.1–1.2	So	16:00–18:00	HS 1	**Tutorial Physics of Neutron Stars (joint session AKjDPG/HK)**
AKjDPG 2.1–2.2	So	16:00–18:00	HS 2	**Tutorial Quantum Information and Entanglement (joint session AKjDPG/MP)**
AKjDPG 3.1–3.2	So	16:00–18:00	HS 3	**Tutorial Plasma Physics (joint session AKjDPG/P)**

Kneipentour

Dienstag 20:00 – 23:00 Treffpunkt Audimax