

Student Talks

Possible Topics

- 1) Analogue Gravity:
Nature 611, 260 (2022)
- 2) Dark Matter:
arXiv:2303.02049
- 3) Jets from Black Holes:
<https://pro-physik.de/nachrichten/gigantische-plasmastrahlen-eines-schwarzen-lochs>
- 4) Mega structures in Universe
<https://pro-physik.de/nachrichten/neue-karte-des-universums-enthueellt-mega-strukturen>
- 5) Orbital precession of stars in galactic center:
<https://arxiv.org/pdf/2304.11458>
- 6) Interaction between gravitational waves and trapped Bose-Einstein condensates
arXiv:2411.15874
- 7) Quantization of gravitational waves:
Claus Kiefer, Quantum Gravity, Oxford University Press (2007)
- 8) Cosmology:
 - a) Robertson-Walker metric
 - b) Cosmological standard model

Organizational Matters

- 1) Application via Email until December 20, 2024: First come first served → Topic
- 2) Student talk program available on Januar 5, 2025
- 3) Student talks will take place in the second half of January 2025