



Münchner Physik- Kolloquium

Sommer
2022

Imaging supermassive black holes in galaxies with radio interferometry

Prof. Dr. J. Anton Zensus, *Max-Planck-Institut für Radioastronomie, Bonn*

Monday, 18 July 2022, 17:15 h

Hörsaal H 030, Fakultät für Physik der LMU, Schellingstraße 4, München

■ Neben der Veranstaltung vor Ort sind die Vorträge in diesem Semester auch als

Videoübertragung im Internet verfügbar: <https://tum-conf.zoom.us/j/93234766313>

Meeting-ID: 932 3476 6313; Password: Kolloquium; Please install the software in advance.

The first image of the shadow of a supermassive black hole located in the core of the galaxy Messier 87 was taken with radio telescopes and it was recently released by the Event Horizon Telescope (EHT) Collaboration. This image is a breakthrough not only for radio astronomers following decades of VLBI (Very Long Baseline Interferometry) studies of Active Galactic Nuclei (AGN) and relativistic jet structures. VLBI at mm wavelengths enables the study of the conditions and interactions close to supermassive black holes on a range of scales. I will give an overview of this research in the context of astrophysical studies of AGN. Finally, I will discuss recent results and I will give outlook to the future of this research at Event Horizon scales.

Student event: Meet the speaker

We invite you to a **student-only** discussion-round with Prof. Dr. J. Anton Zensus before his Munich Physics Colloquium talk.

Be curious and feel free to ask any question.

Monday, 18 July 2022, 16:00 h,

Room H 522 (5th floor), Fakultät für Physik der LMU, Schellingstraße 4, München

