

## Physikalisches Kolloquium

**J. Anton Zensus, MPG und Universität Bonn**

**»Very Long Baseline Interferometry at mm Wavelengths:  
Imaging Event Horizon Scale Structures«**

*Einführung: W. Wulfhekel*

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The first image of the shadow of a supermassive black hole located in the core of the galaxy Messier 87 was recently released by the Event Horizon Telescope (EHT) Collaboration. This image is a high point following decades of VLBI (Very Long Baseline Interferometry) observations of Active Galactic Nuclei (AGN) and relativistic jet structures. VLBI enables the study of the conditions and interactions close to supermassive black holes on a range of scales. I will present an overview of the Event Horizon Telescope results and discuss this VLBI experiment in the context of astrophysical studies of AGN. Finally, I will give an outlook to the future of this research at Event Horizon scales.

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**Freitag, 14.06.2019, 15:45 Uhr,**

**KIT, Campus Süd,  
Otto-Lehmann-Hörsaal, Physik-Flachbau (Geb. 30.22).  
Anschließend Nachsitzung.**