



Contribution ID: 53

Type: **not specified**

Supermassive Black Holes, Black Hole Pairs & the Event Horizon Telescope

Thursday, 23 July 2015 15:30 (30 minutes)

Highest resolution Event Horizon Telescope (EHT) observations will probably soon tell us more about the supermassive black hole at the Galactic Centre (Sgr A*) and the cores of active galactic nuclei (AGN).

It might also help to clarify the long-standing question whether the central massive objects in AGN are instead close pairs of black holes. Mergers of supermassive black hole pairs would provide the strongest gravitational wave signals.

I will present examples of how we identify potential close binary black hole candidates based on the combined analysis of high resolution radio interferometric (VLBI) observations and multi-wavelength data. I will also provide an outlook on the scientific prospects with regard to future EHT-observations of these AGN.

Primary author: BRITZEN, Silke (MPIfR)

Presenter: BRITZEN, Silke (MPIfR)

Session Classification: Senior scientist session 3

Track Classification: Seniors