



Contribution ID: 141

Type: **Invited/Solicited talk in mini-symposium**

Accreting Supermassive Black Hole Binaries in the Gravitational Wave driven regime

Thursday, 14 December 2023 16:39 (25 minutes)

I will summarize theoretical work on accreting supermassive black hole binaries in the gravitational-wave-driven regime. A particular focus is on theoretical predictions of properties of disks and jets in the relativistic regime and its unique signatures where gravitational waves drive the evolution of the system. I will also discuss prospects of dedicated radio VLBI observations and some of their analysis aspects to detect and track similar systems that should simultaneously constitute promising gravitational wave sources. This calls for a comparison of the state of theoretical work to models of *single* black holes as studied for the Event Horizon Telescope work. The prospect of bringing theoretical and observational efforts as well *single* and *binary* accreting black hole studies closer together makes this an exciting field of research for years to come.

Primary author: GOLD, Roman (University of Southern Denmark)

Presenter: GOLD, Roman (University of Southern Denmark)

Session Classification: Accretion Processes