

## **GRAVITY+: black holes from here to there**

*mardi 15 novembre 2022 11:30 (30 minutes)*

Optical interferometry just recently came to an age with the transformative results brought up by GRAVITY at the VLTI, on topics such as exoplanets, active galactic nuclei (AGN) and the Galactic Center. The next stage is already upcoming with GRAVITY+, a series of upgrades of the instrument and the infrastructure. With laser-assisted, extreme adaptive optics for each unit telescope and wide-angle fringe-tracking, GRAVITY+ will reach targets as faint as K=22, including many AGNs and all of the Galactic plane. I will show how these upgraded performance will open the door to a statistical approach to black hole science, from here to the end of the Universe.

**Author:** PAUMARD, Thibaut (LESIA - CNRS/Observatoire de Paris)

**Orateur:** PAUMARD, Thibaut (LESIA - CNRS/Observatoire de Paris)

**Classification de Session:** Contributed presentations