ID de Contribution: **14** Type: **Non spécifié**

Dark Matter reconstruction from stellar orbits in the Galactic Centre

mardi 15 novembre 2022 12:00 (30 minutes)

The continuous monitoring of stellar orbits in the Galactic Centre over the past few decades revealed the massive central object Sgr A*at their shared focal point (⟶ Nobel prize 2020). These and other observations (orbits of hot flares, black hole shadow) are in best agreement with the notion of Sgr A* being a massive black hole of about 4 million solar masses. Assuming the black hole model, the orbit of the star S2 (also S-02) also allowed for the observation of relativistic effects (gravitational redshift, Schwarzschild precession).

While we currently do not see any matter between the innermost known S-stars (e.g. S2) and the accretion f

In my talk I will first summarise some recent theoretical results as well as observational upper bounds on

Auteur: HEISSEL, Gernot (Observatoire de Paris / LESIA)

Orateur: HEISSEL, Gernot (Observatoire de Paris / LESIA)

Classification de Session: Contributed presentations