



Contribution ID: 37 Contribution code: 1

Type: **not specified**

Shadows of Kerr black holes with Proca hair

Thursday, 7 July 2022 16:25 (10 minutes)

We report the results of the first comprehensive study on the shadows of fundamental Kerr black holes with Proca hair. Some of these solutions show striking non-Kerr features, such as chaotic patterns, non-smooth shadow edges, and ghost shadows. We illustrate how fundamental photon orbits can help us understand some of these features. Nonetheless, a wide range of solutions where deviations from Kerr are small can also be found, which allow us to constrain the amount of hair compatible with the Event Horizon Telescope data.

Primary author: SENGO, Ivo (University of Aveiro)

Presenter: SENGO, Ivo (University of Aveiro)

Session Classification: Scientific session