Contribution ID: 59 Type: Abstract

Black holes: funnels or droplets?

Friday 4 October 2024 12:40 (10 minutes)

Holography is a field of theoretical physics that explores the nature of quantum gravity. Through the AdS/CFT duality, physicists can solve complicated computations of gauge theories inhabiting a "boundary" by working with gravity theories in one more dimension, the so-called bulk. The duality dictates an equivalence between objects on each of its two sides, like a dictionary. What happens if we put a black hole on the boundary? What body inhabits the hyperbolic space in this case, and what shape does it have? Can this situation be studied dynamically? And most importantly, do we have a black funnel, a black droplet, or have we broken physics?

Poster

No

Primary authors: Dr SERANTES, Alexandre; Prof. MATEOS, David; SOLÉ VILARÓ, Pau

Presenter: SOLÉ VILARÓ, Pau

Session Classification: Morning talks

Track Classification: Talks