

VII Leopoldo García-Colín Mexican Meeting on Mathematical and Experimental Physics



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VOLKER PERLICK: Influence of a cosmic expansion on the shadow of a black hole

Wednesday, 19 February 2020 12:30 (1 hour)

If a black hole is seen against a backdrop of light sources, it shows a black disc known as the “shadow” of the black hole. In the first part of the talk I recall how the boundary curve of the shadow can be analytically calculated for an isolated (Schwarzschild or Kerr) black hole. Then I discuss how the cosmic expansion, in the simplest case just driven by a cosmological constant, would influence the size of the shadow and if this influence could be of any relevance for actual observations of black-hole shadows.

Session Classification: PLENARY TALKS

Track Classification: SYMPOSIUM ON BLACK HOLES AND GRAVITATIONAL WAVES