

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



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NORA BRETÓN: Regular Black Holes

Monday, 17 February 2020 16:30 (30 minutes)

In this talk I address Regular Static Spherically Symmetric Black Holes (BH) constructed by introducing a de Sitter core, like the Hayward BH (HBH), then I compare the different trajectories in free fall, in the interior of the horizon, between a regular (HBH) and a singular (Reissner-Nordstrom) BH; the energy conditions are discussed as well as for the Regular Black Holes sourced by nonlinear electrodynamics (NLED).

Finally, I give some comments on the procedure by Newman-Janis(NJ) to obtain stationary Regular BH starting from a static one, adding some words on the failure of the NJ technique.

Session Classification: SHORT TALKS

Track Classification: SYMPOSIUM ON BLACK HOLES AND GRAVITATIONAL WAVES