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Primordial Black Holes - Positivist Perspective and Quantum Quiddity

Monday, 17 June 2024 10:00 (20 minutes)

I review the observational evidence for primordial black holes from a variety of lensing, dynamical, accretion and gravitational-wave effects. As I will show, all of these (over 20) may be explained by a single and simple unified model, naturally shaped by the thermal history of the Universe. In the second part of my talk, I will comment on the novel feature of vorticity in black holes, which may yield the very first astrophysical observable for quantum effects in these compact bodies.

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