

Contributed Talk

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Title: Eikonal quasinormal modes and shadow of string-corrected d-dimensional black holes

Abstract: We compute the quasinormal frequencies of d -dimensional spherically symmetric black holes with leading string α' corrections in the eikonal limit for tensorial gravitational perturbations and scalar test fields. We find that, differently than in Einstein gravity, the real parts of the frequency are no longer equal for these two cases. The corresponding imaginary parts remain equal to the principal Lyapunov exponent corresponding to circular null geodesics, to first order in α' . We also compute the radius of the shadow cast by these black holes. Work published in Phys.Lett.B 819 (2021) 136407.