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Scalar Perturbations of Regular Black Holes from Non-Singular Collapse Models in Asymptotic Safety

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We investigate the massless scalar field perturbations, including the quasinormal modes spectrum and the ringdown waveform, of regular black hole spacetimes derived within the Asymptotic Safety program. In particular, we discuss the stability of a new class of AS black holes recently derived dynamically within a non-singular model of collapse and explore the possibility of detecting signatures of the horizon structure with high-order overtones.

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