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Linear perturbations of spherically symmetric black holes in Lovelock theories

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We analyze spherically symmetric black holes in the general Lovelock gravity for different asymptotics (flat, dS, AdS). We find numerically the metric coefficients of the physically relevant branch of the solutions and the corresponding effective potentials for the gravitational perturbations. We also perform a comprehensive analysis of the eikonal instabilities of the black holes.

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Session Classification: Black holes and entropy