

Relation between the Parameters of a Gravitational Lens and the Frequencies of Black-hole Quasi-normal Modes

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The characteristic modes of oscillation of black holes – the quasi-normal modes – are extensively studied since they carry information about the physical properties of the black holes and there is hope that they can be measured in near future gravitational wave experiments. In the current report an alternative method for the measurement of the frequencies of the quasi-normal modes through observations in the electromagnetic sector is proposed based on a relation between two processes – emission of gravitational waves and gravitational lensing.

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