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Testing the membrane paradigm with holography

Wednesday, 15 April 2015 15:20 (30 minutes)

For an asymptotic observer a black hole can be replaced by a simple dissipative membrane located at a stretched horizon, i.e. a very small distance outside the horizon. In this talk I will show what are the limits of validity of such approximation scheme. In particular I will argue that it generically fails to capture massive quasinormal modes. I will also show how it instead reproduces hydrodynamical modes of an AdS black brane as long as an additional spurious excitation is removed from the spectrum.

Presenter: PINZANI FOKEEVA, Natalia

Session Classification: Parallel Session