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Traversable Casimir Wormholes

Thursday, 10 October 2019 09:00 (45 minutes)

Traversable Wormholes are a prediction of General Relativity. After the discovery of the Gravitational Wave signals detected in 2015, Traversable Wormholes have had another renaissance, because they can be considered as Black Hole Mimickers.

In this talk we give a pedagogical introduction and we present some theoretical aspects at classical and semi-classical level, namely when the source has quantum mechanical origin. A brief description of a Self-Sustained Traversable Wormhole, namely a Traversable Wormhole which is sustained by its own quantum fluctuations is also presented.

Primary author: GARATTINI, Remo (Università degli Studi di Bergamo)

Presenter: GARATTINI, Remo (Università degli Studi di Bergamo)

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