Contribution ID: 13

Type: Parallel oral presentation

Traversable wormholes with like-Casimir complexity supported with arbitrarily small amount of exotic matter

Thursday 17 November 2022 15:30 (15 minutes)

In this work we construct traversable wormholes geometries in the framework of the complexity factor. We provide the redshift function of a Casimir traversable wormhole which, in combination with a non-vanishing complexity factor, leads to a traversable wormhole with a minimum amount of exotic matter. The shape function and the embedding diagram are shown and discussed. The tidal accelerations and the time required to get through the wormholes are estimated.

Poster fallback option for rejected abstracts for parallel oral presentations

Yes

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Track Classification: Cosmology and gravitation