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Casimir Wormholes in Modified Gravity theories

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Static traversable wormhole solutions within extended gravity theories have been obtained by exploring the Casimir energy. The shape function and the associated energy conditions are obtained. Also, the concept of minimal length leading to the generalized uncertainty principle (GUP) is used to assess the effect of GUP correction on the wormhole geometry and the exotic matter content of the traversable wormholes.

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