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Circularly symmetric thin-shell wormholes in F(R) gravity with (2+1)-dimensions

Tuesday, 6 July 2021 12:00 (15 minutes)

Within the framework of F(R) theories of gravity with (2+1)-dimensions and constant scalar curvature R, we construct a family of thin-shell wormholes with circular symmetry and we analyze the stability of the static configurations under radial perturbations. We show an example of asymptotically anti-de Sitter thin-shell wormholes with charge, finding that stable configurations with normal matter are possible for a suitable range of the parameters.

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