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Stability of charged thin shell wormhole supported by polytropic gas

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**Highlights**

- Apply Darmois-Israel formalism and matching two solutions across the singular surface.
- The equations of motion of thin shell wormholes in Reissner-Nordstrom are deduced.
- The equation of state of a polytropic gas is considered.
- Stability analyses by linear radial perturbations around static solutions are proposed.

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