



Contribution ID: 67

Type: **not specified**

Perturbative aspects and entropy features of GB-BTZ black holes

Wednesday, 13 September 2023 15:50 (20 minutes)

We investigate some aspects of GB-BTZ black holes. Perturbations associated to scalar and massless spinorial fields are studied suggesting the dynamical stability of the geometry. Moreover, the quasinormal modes are found for different parameters, mainly exploring the influence of the coupling constant of the theory. The hydrodynamical modes are also obtained in the small coupling limit. Furthermore, the entropy bound and the dominant semiclassical correction to the black hole entropy are calculated.

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Session Classification: Parallel Session A