10th International Conference on Gravitation and Cosmology: New Horizons and Singularities in Gravity (ICGC 2023)



Contribution ID: 255

Type: Oral

Pole-skipping in holography with scalar-Gauss-Bonnet coupling

Pole-skipping is a phenomenon when lines of poles and zeroes of retarded Green's function intersect- which means a would-be pole gets skipped in a complex $\omega - k$ plane. People have claimed these points are connected to the Lyapunov exponent and butterfly velocity of a chaotic system. In this talk, I will show the effect of scalar-Gauss-Bonnet coupling (higher curvature term coupled to the scalar field) on these Pole-skipping points in shear and sound mode analysis. The connection to chaos will also be discussed.

Email

banashreebaishya.006@gmail.com

Affiliation

IIT Guwahati

Author: Ms BAISHYA, Banashree (IIT Guwahati)
Presenter: Ms BAISHYA, Banashree (IIT Guwahati)
Session Classification: Classical & Quantum Gravity

Track Classification: Classical & Quantum Gravity