

Invited Talk - Super-translation Transitions of Black Hole Horizons - Avirup Ghosh, Kulti College, West Bengal

Saturday 23 August 2025 11:30 (1 hour)

The memory effect and its relation to supertranslations at asymptotic Null infinity has been studied extensively. In this talk we try to decipher whether such a notion can be defined on a black hole horizon as well. A condition will be defined such that it can be said that a supertranslation has been induced, in the course of a general evolution, from one stationary horizon phase to another. The primary aim here, will be to check the viability of this condition, by considering different fluxes, that lead to an evolution of a stationary horizon. Finally, we will try to understand whether any observable signatures, at asymptotic infinity, can be extracted from this.

Session Chair : Sanved Kolekar