

Charge Emission from Charged Black Holes

Sunday, 30 June 2019 16:00 (30)

The spontaneous pair production of charged scalars from near-extremal rotating, electrically and/or magnetically charged black holes is discussed. Analytical expressions for pair production, vacuum persistence and absorption cross section are found, and the spectral distribution is given a thermal interpretation. The associated holographical correspondence is confirmed at the 2-point function level by comparing the absorption cross section ratio as well as the pair production rate both from the gravity and the conformal field theories. A special case of charge emission from non-extremal black hole is studied.

Presenter(s) : XX, X (XXXXXX)

Session Classification : Afternoon sessions