

Islands and Hawking radiation correlations of evaporating black holes

Wednesday, 17 March 2021 16:30 (1 hour)

We consider the effect of shockwaves on the entanglement structure of black holes. We examine the correlations in generic subsets of the Hawking radiation emitted by evaporating black holes following the shockwave insertion and find a zoo of competing island saddle points for the associated entanglement entropies. By computing the mutual information between early and late modes we establish long range correlations in the Hawking radiation.

45' talk + 15' discussion

Presenter: KUMAR, Prem