Contribution ID: **55**   Type: **not specified**

Greybody factors of string-corrected black holes

Thursday 25 July 2024 12:00 (20 minutes)

We compute analytically greybody factors for asymptotically flat spherically symmetric black holes with stringy higher derivative corrections in d dimensions in the high frequency limit. Our calculations include both the eikonal limit —where the real part of the frequency of the scattered wave is much larger than the imaginary part —and the highly damped case —where the imaginary part of the frequency is much larger than the real part —, addressing the emission of gravitons and test scalar fields, and yielding full transmission and reflection scattering coefficients.

Primary authors: MOURA, Filipe (ISCTE - Instituto Universitário de Lisboa); RODRIGUES, João

Presenter: MOURA, Filipe (ISCTE - Instituto Universitário de Lisboa)