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Title: Super-Hawking Radiation

Abstract: The realization that space-times related by an asymptotic symmetry should be regarded as physically inequivalent has stimulated a critical revision of the basic assumptions of the black hole information paradox and has led to the identification of additional conserved quantities that should be employed to specify a black-hole configuration: the supertranslation and superrotation charges. However, if these additional charges are to bear relevance to the problem of information loss, one expects that the Hawking spectrum itself should be sensitive to the action of asymptotic symmetries. In this talk I will present some recent work where we address this question and find that supertranslations and superrotations do in general modify both the Bogolyubov coefficients by inducing nontrivial off-diagonal phases. However, while in the case of superrotations they eventually leave the spectrum unaltered, in the case of superrotations the spectrum is significantly altered.