

Physics Seminar Series

Prof. Xavier Calmet from the University of Sussex.

Title: Quantum Gravitational Corrections to the Entropy of a Schwarzschild Black Hole

Date: Thursday 14th October 2021 13:00

Abstract: In this talk I will discuss how to apply effective field theory methods to quantum gravity. I will discuss applications of these techniques to calculations of quantum gravitational corrections to stars, gravitational waves and black holes. I will also mention some possible applications for dark matter. Finally, I will report on a recent application to the calculation of quantum gravitational corrections to the entropy of black holes and will then come to the conclusions.