



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
SEMINAR

Recent Developments in Black Hole Perturbation Theory

by

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Date: October 25, 2024 (Friday)

Time: 3:30 – 4:15 p.m.

Place: Rm. L2, Science Centre, CUHK

ALL INTERESTED ARE WELCOME

Abstract

We will discuss some recent work on black hole perturbation theory, regarding the tidal deformation of black holes, and quasinormal modes during ring-down. We will emphasize the role of symmetries, and present some developments beyond linear perturbation theory. A gentle introduction will be given. The seminar is based on the following papers: 2212.09367, 2208.07380, 2208.07379, 2105.01069.