



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
SEMINAR

Learning from The Last Few Milli-seconds of Binary Black Hole Mergers

by

Dr. Juan CALDERON BUSTILLO
School of Physics and Astronomy
Monash University, Australia

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Time: 11:00 a.m. - 12:00 n.n.

Place: Rm. G25, Science Centre North Block, CUHK

ALL INTERESTED ARE WELCOME

Abstract

After two black holes merge, the highly distorted remnant black hole settles to a Kerr black hole emitting ringdown gravitational-waves. During these few milliseconds, gravity reaches its strongest regime, enabling us to study fundamental properties that cannot be otherwise accessed. In this talk I will discuss what can we learn from the ringdown radiation of remnant black holes: from testing the no-hair theorem, to exploring the shape of the final horizon itself.