



THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
SEMINAR

Dark Energy, Gravity and the Cosmic Acceleration

by

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ALL INTERESTED ARE WELCOME

Abstract

The origin of the accelerated Hubble expansion of our Universe has been one of the mysteries in modern physics for nearly three decades. Theories to explain it typically involve some extra matter species (known as dark energy, DE) or modifications to the large-scale behaviour of gravity (as in theories of modified gravity, MG), both of which implying new physics. In this talk I will give a quick overview of this field, focusing on the theories of DE and MG, their connections to observations through numerical simulations, and how a systematic and comprehensive test of these theories can shed light on our understanding of fundamental physics.