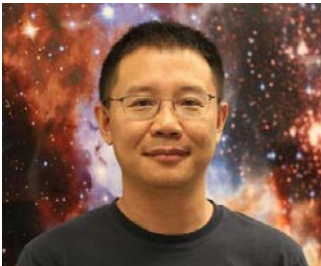




THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
COLLOQUIUM

Dark Matter

by



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Date: October 27, 2020 (Tuesday)

Time: 10:30 - 11:30 a.m.

Join ZOOM Meeting: <https://cuhk.zoom.us/j/98091988366>



ALL INTERESTED ARE WELCOME

Abstract

Dark matter makes up 80% of the mass of the Universe, but its identity remains mysterious. In this talk, I will first give an overview of cosmological evidence and terrestrial dark matter searches. Then I will focus on diverse dark matter distributions in galactic systems ranging from dwarf galaxies to galaxy clusters, and show that a new dark matter theory, Self-Interacting Dark Matter (SIDM), can explain them in a unified way. I will further discuss other intriguing astrophysical implications of SIDM, such as the origin of supermassive black holes in the early Universe.

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