THE CHINESE UNIVERSITY OF HONG KONG
Department of Physics
SEMINAR

Exploring the Signatures of Strong Dark Matter Self-Interactions

by

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Date: December 21, 2023 (Thursday)
Time: 2:30 - 3:30 p.m.
Place: L3, Science Centre, CUHK

ALL INTERESTED ARE WELCOME
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Abstract

I will discuss recent advancements in N-body simulations of self-interacting dark matter and their implications for the latest astrophysical observations of diverse galactic systems, including spiral galaxies, ultra-diffuse galaxies, and satellite galaxies of the Milky Way. I will highlight the novel signatures of gravothermal collapse in dark matter halos and explore their detection possibilities through observations of strong lensing systems and supermassive black holes.

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