

INDIAN ASSOCIATION FOR THE CULTIVATION OF SCIENCE

2A & 2B, Raja S.C. Mullick Road, Jadavpur, Kolkata-700032,

India

Seminar Notice

Org. by

School of Physical Sciences

Title:	Neutrino Portal Dark Matter with Yukawa Effect
Speaker:	Eung Jin Chun, School of Physics, Korea Institute for Advanced Study (KIAS), Republic of Korea
Date:	January 30, 2019 (Wednesday)
Time:	4:00 p.m.
Venue:	Physics Seminar Room - C406, 3rd Floor, Centenary Building, IACS
Abstract:	Analyzing the neutrino Yukawa effect in the freeze-out process of a generic dark matter candidate with right-handed neutrino portal, we identify the parameter regions satisfying the observed dark matter relic density as well as the current Fermi-LAT and H.E.S.S. limits and the future CTA reach on gamma-ray signals. In this scenario the dark matter couples to the Higgs boson at one-loop level and thus could be detected by spin-independent nucleonic scattering for a reasonable range of the relevant parameters.

All are cordially invited to attend the seminar