

Topics in Dark Matter Physics

I will talk about a few topics in dark matter physics based on dark U(1) gauge symmetry and dark Higgs boson: (i) two-component WIMP scenario is well alive, (ii) 511 keV line in multi-component DM model, (iii) Belle-II $B^+ \rightarrow K^+ \nu \bar{\nu}$ excess from a light dark sector scenario, (iv) KM3 high energy neutrino events and gravitational wave signatures.

Primary author: KO, Pyungwon (Korea Institute for Advanced Study)

Co-authors: KIM, Jinsu; KIM, Jongkuk (Chung-Ang University); KHAN, Sarif; HO, Shu-Yu

Presenter: KO, Pyungwon (Korea Institute for Advanced Study)