THE CHINESE UNIVERSITY OF HONG KONG

Department of Physics

SEMINAR

Overview of Belle and Belle II Experiments

by

Professor Chengping SHEN (沈成平教授)
Key Laboratory of Nuclear Physics and Ion-beam Application (MOE)
&
Institute of Modern Physics
Fudan University, China

Date: May 22, 2026 (Friday)
Time: 2:30 - 3:30 p.m.
Place: Rm G25, Science Centre North Block, CUHK

ALL INTERESTED ARE WELCOME
****

Abstract

Belle II has been designed to make precise measurements of weak interaction parameters, study exotic hadrons, and search for new phenomena beyond the Standard Model of particle physics. In June 2022, SuperKEKB, the asymmetric energy accelerator that provides e^+e^- colisions inside Belle II, achieved a new luminosity world record of 4.7×10^{34} cm^{-2}s^{-1}. From 2019-2022 Belle II accumulated a 400 fb^{-1} data sample (run 1). These data provide large samples of beauty and charm hadrons. With its clean e^+e^- collision environment and high luminosity, the Belle and Belle II experiments are ideally suited to explore exotic hadrons associated with b-quark, including Z_b, X_b, and Y_b states, and charmonium-like states in B decays. In this talk, I will present some recent and rapid progress in the field of hadron spectrum and exotic XYZ hadrons from Belle and Belle II experiments.

Enquiries: 3943 6303