

Commissioning of Belle II data acquisition

Friday, July 6, 2018 6:45 PM (15 minutes)

The Belle II experiment operates at the SuperKEKB e^+e^- energy-asymmetric collider on or near the $\Upsilon(4S)$ resonance energy. The Belle II experiment is now in the “Phase 2” run and focusing on the search for new physics related with dark sector, axion-like particles, etc. with an intermediate luminosity on the way to reach the challenging target. To accomplish the physics goal of Phase 2, we need to implement a new trigger menu for the single photon and low multiplicity events. A high trigger rate is expected for collecting such data. In this presentation, we describe the data acquisition (DAQ) system of Belle II, focusing on the successful commissioning of the complex DAQ, and the performance of the system for the new physics search mentioned above.

Primary author: PARK, Seokhee (Yonsei University)

Co-authors: NAKAO, Mikihiko (KEK); ITOH, Ryosuke; YAMADA, Satoru (KEK); SUZUKI, Soh; KWON, Youngjoon (Yonsei University); KONNO, Tomoyuki (Tokyo Institute of Technology)

Presenter: PARK, Seokhee (Yonsei University)

Session Classification: POSTER

Track Classification: Posters