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Development and operation of electronics for the Belle II Central Drift Chamber

Thursday, 13 April 2023 12:00 (20 minutes)

Belle II is a precision measurement experiment that aims to explore new physics by precisely measuring the decays of particles such as B, D and τ. The Central Drift Chamber (CDC), one of the detectors, measures the trajectory and determines the momentum of charged particles using its front-end readout module. The detector system has led to many physics results recently, but also revealed operational issues. For example, radiation damage on the CDC modules significantly affected the data acquisition efficiency. In the future, luminosity is expected to increase even further. Therefore, we are working to address the problems with the current modules and to develop new module that are more radiation resistant.
In this talk, I will present the current operational status of the CDC readout module and the upgrade plans.

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