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System integration and initial performance of B2link in Belle II experiment

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Belle2link(B2link) is an unified data collection system providing front-end data readout from all individual sub-detector systems, and at the same time providing on the other side of the system at the backend slow control functionalities to the frontend electronics for parameter settings. That is, via the links downward, slow control commands can be transmitted from backend to the frontend, and the slow control data(detector parameters) from frontend electronics can be transmitted back by sharing the same data link for the high speed normal data from the detector.

The system has been applied to all the Belle II subsystems:CDC,SVD,ECL,RICH,TOP and KLM before year 2017. Tests have been made with satisfactory and system with full drift chambers(CDC) and full electromagnetic calorimeter(ECL) has been tested with cosmic ray in 2017. This presentation will talk about the final B2link integration and system test results.

Description

System integration

Institute

IHEP Beijing

Speaker

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Country

China

Minioral

Yes

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