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SBND Hardware Trigger System

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The SBND experiment is a liquid argon time projection chamber (LArTPC), which serves as the near detector to the Short Baseline Neutrino (SBN) program at Fermilab. With only 110 m between the detector volume and the beam target, SBND will record over a million of neutrino interactions per year, more than any LAr experiment to date. Furthermore, the detector is located on the surface and exposed to cosmic rays. As a result, a sophisticated and reliable trigger system is needed to ensure high efficiency of neutrino data while maintaining data rates which are manageable in downstream analysis. This talk will detail how the SBND trigger system achieves both of these goals.

Submitted on behalf of a Collaboration?

Yes

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