Contribution ID: **607** Type: **Poster**

New Beam Position Detectors for NA61/SHINE experiment

Wednesday, May 26, 2021 5:12 AM (18 minutes)

The NA61/SHINE experiment at the CERN SPS is undergoing a major upgrade during the LHC Long Shutdown 2 period (2019-2021). The upgrade is essential to fulfill the requirements of the new open charm and neutrino programs. In these programs the NA61/SHINE will operate with the data acquisition rate increased by a factor of 10, which requires an upgrade of current Beam Position Detectors (BPDs). New BPDs should monitor beam particle positions with a frequency up to 10^5 Hz.

The design and development of the new BPDs based on Si strip detectors as well as BPD's readout electronics, integration with DAQ and electronics verification results will be discussed.

TIPP2020 abstract resubmission?

Funding information

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Session Classification: Posters: Trackers

Track Classification: Experiments: Experiments: Trackers