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Development of Si Beam Position Detectors for NA61/SHINE experiment

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The NA61/SHINE detector at the CERN SPS is undergoing a major upgrade during the LHC Long Shutdown 2 period (2019-2021). The upgrade is essential to fulfil the requirements of the new open charm measurement program. In this program detector will operate at a beam intensity increased by a factor of 10, which requires an upgrade of current Beam Position Detectors (BPDs). New BPDs should monitor lead and proton beam intensities with 10ˆ5 Hz intensity. In a proposed poster, progress on design and development of front-end and readout electronics, as well as integration with the NA61/SHINE DAQ of the new BPDs based on Si strip detectors, will be presented.

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