

Strangeness in Quark Matter 2019



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Type: **Contributed talk**

Upgrade of the NA61/SHINE detector

Thursday 13 June 2019 14:00 (20 minutes)

The NA61/SHINE detector is facing major upgrade process during Long Shutdown 2 period (2019-2021). Which is required to fulfill all assumptions of the open charm measurement program. The main purpose of the upgrade is to increase the readout rate by factor 10 and increase acceptance in the high density tracks environment. The following elements of the detector are parts of the upgrade: Time Projection Chambers (TPC), Vertex Detector (VD), Beam Position Detectors (BPD) and Particle Spectator Detector (PSD) On top of detectors, new Trigger and Data Acquisition (TDAQ) system has to be developed. This means completely new design of trigger system and readout scheme. Finally data analysis software also needs to be redesigned. In the proposed talk the progress on design and development of new detectors and TDAQ system for NA61/SHINE experiment will be presented.

Collaboration name

NA61/SHINE

Track

Upgrades and new experiments

Primary author: TEFELSKI, Dariusz (Warsaw University of Technology (PL))

Presenter: TEFELSKI, Dariusz (Warsaw University of Technology (PL))

Session Classification: Upgrades and New Experiments