



Contribution ID : 882

Type : Oral talk

## **Future physics program and perspectives for the NA61/SHINE large acceptance particle spectrometer at the CERN SPS.**

*Friday, 9 October 2020 11:35 (20)*

The NA61/SHINE collaboration accomplished the originally proposed program of data taking at the end of 2018. The new 2020+ research plan will be presented. It includes:

- the new upgraded experimental setup;
- the open-charm production in Pb+Pb collisions which has never been measured at such low energies;
- improved hadron production measurements for current and future Long-Baseline Neutrino experiments;
- nuclei fragmentation studies for understanding the propagation of cosmic rays in the Galaxy.

The ideas for new studies after the CERN LS3 will be discussed.

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**Session Classification** : Facilities and Advanced Detector Technologies

**Track Classification** : Facilities and advanced detector technologies