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NA61/SHINE: physics and facility beyond 2020

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NA61/SHINE is a multi-purpose experimental facility to study hadron production in hadron-proton, hadron-nucleus and nucleus-nucleus collisions for physics of strong interactions, neutrinos and cosmic-rays. NA61/SHINE approved data taking programme should be completed by the end of 2018. This presentation summarizes requests for new measurements and necessary facility upgrades. The former includes precise measurements of open charm and multi-strange hyperon production, measurements of fluctuations and correlations in the full phase space as well as precise measurements of hadron emission from the replica target of the Long-Baseline Neutrino Facility (LBNF) at Fermilab required for the Deep Underground Neutrino Experiment (DUNE).

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Session Classification: Potential future of existing programs