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Status and results from the NA61/SHINE experiment at the CERN SPS

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Present status and recent results shall be presented from the NA61/SHINE experiment at the CERN SPS. The physics program is concentrated along heavy-ion physics and the study of hadron production in p+p and h+A collisions. The heavy-ion program mostly address the study of onset of deconfinement and search for the critical point of the strongly interacting matter, while the p+p and h+A program is also meant to provide valuable reference data for neutrino beam experiments and large coverage cosmic shower observatories.

The quantitative results to be shown are identified charged pion and Kaon production spectra in p+C collisions, along with preliminary K^0_s and Lambda yields. These results are mostly used by neutrino beam communities. Preliminary identified charged pion, Kaon and proton spectra in p+p collisions shall also be presented. These data are mostly relevant for the heavy-ion program of NA61 as a baseline. Along with single particle spectra, results on the energy and system size dependence on event-by-event fluctuation measures shall also be presented.

Finally, the near plans and farther future perspectives shall also be mentioned, such as the Pb+Pb energy scan and open charm measurement possibilities.

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