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Overview of recent measurements by NA61/SHINE at the CERN SPS

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NA61/SHINE at the CERN SPS performed a unique two-dimensional scan of system size and collision energy with a goal to search for a critical point of the strongly interacting matter and to explore properties of matter at the onset of deconfinement. This talk will cover highlights from recent measurements in p+p, Be+Be, Ar+Sc, and Pb+Pb reactions. The results concern hadron yields and their ratios, charged hadron directed and elliptic flow, proton intermittency, electromagnetic effects, higher-order moments of multiplicity and netcharge fluctuations. A comparison with model predictions and data from other experiments in the SPS energy range will be also shown. The physics case and status of the ongoing upgrade of the NA61/SHINE facility will be discussed.

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