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Latest results from the NA61/SHINE beam energy scan with p+p and Be+Be collisions

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The NA61/SHINE experiment aims to discover the critical point of strongly interacting matter and study the properties of the onset of deconfinement by measurements of hadron production properties in proton-proton, proton-nucleus and nucleus-nucleus interactions in the CERN SPS energy range.

In this contribution results on the energy dependence of hadron spectra and yields as well as on fluctuations and two-particle correlations in p+p and centrality selected Be+Be collisions will be presented. In particular, the energy dependence of the signals of deconfinement, the “horn”, “step” and “kink”, in p+p interactions will be presented and compared with the corresponding results from central Pb+Pb collisions. Also string-hadronic models will be tested using hadron spectra and correlations measured in p+p interactions. Results on fluctuations (multiplicity and transverse momentum) will be shown as a function of the collision energy and number of wounded nucleons for Be+Be and p+p collisions in search for the critical point of strongly interacting matter.

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