

Fluctuations and correlations from the energy scan in p+p and Be+Be interactions at the SPS energies

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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. These goals are to be achieved by performing a two-dimensional phase diagram (T - μ_B) scan by measurements of hadron production properties in proton-proton, proton-nucleus and nucleus-nucleus interactions as a function of collision energy and system size. Close to the critical point an increase of fluctuations is predicted.

In this contribution preliminary results on fluctuations and two-particle correlations in pseudorapidity and azimuthal angle will be presented for p+p and Be+Be interactions at SPS energies. The NA61 results will be compared with the corresponding data of other experiments and model predictions.

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