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News from strong interactions program of the NA61/SHINE experiment

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The results from the analysis of fluctuations and correlations can help to discover the critical point of strongly interacting matter. In the NA61/SHINE experiment the strategy of locating the critical point relies on performing a two dimensional phase diagram (T - μ_B) scan by measurements of fluctuations and correlations in proton-proton, proton-nucleus and nucleus-nucleus interactions as a function of collision energy and system size. Close to the critical point increase of fluctuations is predicted.

In this contribution the latest NA61/SHINE results on fluctuations and correlations from the p+p, Be+Be, and Ar+Sc energy scans will be presented. The NA61 experimental results will be compared with existing NA49 data and with model predictions.

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