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New results on fluctuations in NA61/SHINE experiment

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NA61/SHINE is a fixed-target experiment at CERN Super Proton Synchrotron which goal is to explore the phase diagram of strongly interacting matter. A two-dimensional scan of this diagram is performed by varying the beam momentum (13A-150(8)A GeV/c) and the system size (p+p, Be+Be, Ar+Sc, Xe+La, Pb+Pb). The motivations of this measurements are the study of the properties of the onset of deconfinement and the search for the critical point of the strongly interacting matter. At the critical point the correlation length diverges, what causes the increase of fluctuations signal. In this contribution, fluctuation analysis methods used by NA61/SHINE, recent fluctuation results and its comparison with model predictions will be discussed.

Preferred track

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