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Energy dependence of fluctuations in p+p collisions at the CERN SPS

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NA61/SHINE at the CERN SPS is a fixed-target experiment pursuing a rich physics program including measurements for heavy ion, neutrino and cosmic ray physics.

The main goal of the ion program is to explore the most interesting region of the phase diagram of strongly interacting matter. Within the expected ($T - \mu_B$) interval we plan to study the properties of the onset of deconfinement and to search for the signatures of the critical point. Such 2D scan will be performed by varying collision energy (13A-158A GeV) and system size (p+p, Be+Be, Ar+Ca, Xe+La).

Thanks to its large acceptance and good particle identification NA61/SHINE is well suited for study of event-by-event fluctuations.

In this contribution preliminary results on energy dependence of transverse momentum, azimuthal angle and chemical composition fluctuations in p+p interactions will be shown.

The new data will be compared with the corresponding results of NA49 on central Pb+Pb collisions.

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