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Multiplicity fluctuations of identified hadrons in p+p interactions at SPS energies

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The problem of pinning down the critical point of strongly interacting matter still puzzles the community. One of the answers suspected to emerge in the near future will surely come from NA61/SHINE - a fixed-target experiment aiming to discover the critical point as well as to study the properties of the onset of deconfinement.

This goal will be reached by obtaining precise data on hadron production in proton-proton, proton-nucleus and nucleus-nucleus interactions in a wide range of system size and collision energy.

In this contribution inclusive spectra of identified hadrons in p+p interactions at the SPS energies will be shown as a function of transverse momentum/mass and rapidity. New data will be compared with the corresponding results of NA49 for central Pb+Pb collisions as well as with some model predictions.

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