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NA49 Results on fluctuations

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Strong experimental and theoretical efforts are devoted to the study of the QCD phase diagram looking for the phase transition from hadronic to partonic matter. Event-by-event fluctuations of different observables are considered as a signal for the first order phase transition and should shed light on the predicted existence and location of the critical endpoint of the first order transition line.

We present experimental NA49 results and model comparisons for $\langle p_t \rangle$ fluctuations, multiplicity fluctuations as well as the energy $p_t >$ and multiplicity fluctuations shows no conclusive indication of the critical point. In addition, we will argue that the new results by π - event p_t/π fluctuations strongly hint to resonances as their origin.

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