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Energy dependence of identified hadron multiplicity fluctuations in Heavy Ion collisions at the CERN SPS

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The study of event-by-event (e-by-e) fluctuations of chemical (particle-type) composition in high-energy nucleus-nucleus collisions is a helpful tool to pin-down the properties of strongly interacting matter. Indeed, according to theoretical calculations, the QCD critical point may be signalled by a characteristic pattern in the measured fluctuations. On the other hand, an incomplete particle identification may grossly bias final experimental results. In this context a new method for e-by-e fluctuations of identified particles will be introduced. In particular, using this method, the energy dependence of multiplicity fluctuations of identified particles in central Pb+Pb collisions, measured by NA49, will be presented.

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