Contribution ID: **55** Type: **Talk**

Higher order moments of net-charge multiplicity distribution in p+p interactions at SPS energies from NA61/SHINE

Friday, 3 June 2016 14:00 (30 minutes)

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 study the properties of the onset of deconfinement and to search for the signatures of the critical point. Specific property of the critical point –increase in the correlation length –makes fluctuations its basic signal. Recently, special interest is paid towards fluctuations of higher order moments as they are more sensitive to the correlation length than typically studied second order moments.

In this contribution preliminary results on higher order fluctuations of negatively charged hadrons and net-charge distribution in p+p interactions will be shown. The new data will be compared with model predictions.

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Session Classification: Parallel session 2