Contribution ID: **382** Type: **Poster**

Intermittency of charged hadrons in NA61/SHINE

Wednesday 6 April 2022 17:58 (4 minutes)

NA61/SHINE conducts the search for a hypothesized critical point of strongly interacting matter by scanning in collision energy and mass of colliding nuclei. In this field, one of the key methods is to search for the intermittency signal that, if observed, can be related to the effect of the system self-similarity in the vicinity of a possible critical point. This would lead to the power-law correlation function. This talk will cover the experimental results obtained in Pb+Pb collisions at 30A GeV/c beam momentum for the scaled factorial moments of the second and higher orders as a function of the phase space cell size in the transverse momentum plane. The results will be presented for all charged hadrons and separately for positively and negatively charged ones. No intermittency signal is observed. This seems to be in tension with corresponding preliminary results by the STAR Collaboration.

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Session Classification: Poster Session 1 T07_2

Track Classification: Correlations and fluctuations