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## Transverse momentum distributions and pt-Nch correlations in Extended Multipomeron Exchange Model

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The multipomeron exchange model was considered earlier in papers [1 – 5]. Within the framework of this model, it was possible to successfully describe the charged multiplicity (Nch), mean transverse momentum (pt) and pt-Nch correlations in pp and pp<sup>-</sup> collisions over a wide energy range (from ISR to LHC). It allowed also to reproduce the growth of the yields of strange, multi-strange and charm particles as a function of multiplicity for pp, p-Pb and Pb-Pb collisions at the LHC energy. For this, in particular, the general idea of the Schwinger mechanism of particle production from a string [6] was used, where the transverse momentum distribution of charged particles from a string has a Gaussian form, and in case of string overlap the effective string tension was related to the number of strings. However, experimental data show that the pt-spectra of particles produced in pp collisions are better described by the thermal model. To solve this problem, we introduced the thermal-like pt distribution function which can be considered as averaging out over string tension fluctuations [7]. We calculated pt-spectra and pt-Nch correlations functions for pp-collisions at the LHC energy in extended multipomeron exchange model and compared the results with the experimental data.

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