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Rapidity fluctuations in the initial state

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Recent data from the LHC suggest specific rapidity correlations between the observed hadrons. We propose a model of fluctuations in the initial state, incorporating fluctuation of the length of the emitting sources in rapidity, which is capable of describing the data. In particular, it reproduces the decorrelation of the event-plane angles (the torque effect) in Pb-Pb and p-Pb collisions.

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