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Contribution of the Initial geometry state fluctuations to the ridge structure in high multiplicity pp collisions

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One of the key signatures of collectivity in heavy-ion collisions is the appearance of a ridge structure over wide pseudorapidity interval. Recently it was also found in small collision systems such as proton-proton or proton-ion collisions which origin is still on debate. In this work, contributions from the geometry fluctuations in the initial-state in pp collisions to the ridge structure are estimated from low to high density in the framework of clustering of color strings. Effects show to be relevant for small collision systems unlike in heavy-ion collisions where their effects are negligible.

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