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Angular correlations measured in pp collisions at the LHC by the ALICE experiment

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DeltaEta-DeltaPhi distributions (the difference of two particle pseudorapidity and azimuthal angle) allow us to study the wide landscape of correlations and are expected to exhibit several structures which arise from different physics mechanisms. They are sensitive to a number of correlations i.e. minijets, elliptic flow, Bose-Einstein correlations, resonance decays, momentum and other conservation laws, etc. The observed features in the final shape of the system arise from the complex interplay of these processes. We attempt to quantify them in this analysis. The results will be compared to theoretical models, to verify their predictions and provide input for their improvement in describing new experimental results.

The studies of two-particle angular correlations measured in proton-proton collisions at a center of mass energy 7 TeV registered by ALICE at the LHC will be reported, including the dependence of the correlation function on the multiplicity of the event and on the charge combination of particles in the pair.

Primary author: GRACZYKOWSKI, Lukasz Kamil (Warsaw University of Technology (PL))

Presenter: GRACZYKOWSKI, Lukasz Kamil (Warsaw University of Technology (PL))

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