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Angular correlations of heavy-flavour decay electrons and charged particles in pp collisions at $\sqrt{s} = 5.02$ TeV with ALICE at the LHC

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Two-particle azimuthal correlations triggered by electrons from heavy-flavour hadron decays can be used for heavy-flavour jet studies. By changing the momentum scales of the trigger and associated particles, the heavy-flavour jet structure can be investigated. In pp collisions, heavy-flavour correlations can be used in particular to study the production and fragmentation of heavy quarks.

In this poster, we present the recent ALICE measurements of azimuthal correlations of high- $p_{\rm T}$ heavy-flavour decay electrons with charged particles in pp collisions at \sqrt{s} = 5.02 TeV from the LHC Run 2 data. The results from pp collisions are compared with PYTHIA8 calculations to investigate the fragmentation processes.

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