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D-meson Reconstruction in Run 3 PbPb Collisions at CMS

The enhancement of the detector capability and reconstruction software of CMS enable significant improvement in track based reconstruction of the open heavy-flavor hadrons. This poster presents the latest performance of the D-meson reconstruction using PbPb collisions data recorded by the CMS experiment at the LHC run3. The reported performance includes track reconstruction and secondary vertexing performance and is compared with Monte Carlo simulation. This allows us to access a wide range of pT with good background rejection to fit the requirement for precision measurement.

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