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Performance and study of B meson spectra in pp and pPb collisions in CMS

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B meson reconstruction is of great interest in the heavy ion collisions. Measurement of B meson pseudorapidity and transverse momentum spectra can provide useful inputs for the study flavor dependence of jet quenching in PbPb collisions and for the determination of the heavy flavor nuclear parton distribution functions in pPb collisions. The performance of exclusive B meson reconstruction with the CMS detector is reported. The B mesons are fully reconstructed with J/ψ (via di-muon channel) and charged tracks. The background suppression techniques and analysis methods of B meson spectra are discussed in this poster.

On behalf of collaboration:

CMS

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