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Data-driven efficiencies for di-muon measurements in heavy ion collisions with CMS

CMS has been collecting single muon triggered data in 2010 at $\sqrt{s_{NN}} = 2.76$~TeV in PbPb in order to extract from real data efficiency corrections for muon based analysis. These results were used as an important cross-check for the Monte-Carlo based efficiency corrections used for the Z boson and quarkonia analysis in PbPb and taken into account in the systematics. This poster will review this {\it Tag and Probe} technique that is used for the data-driven measurement of muon efficiencies in CMS on PbPb data. Results obtained on data are compared to what is measured on Monte-Carlo.

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