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Analysis of Monte-Carlo generated Data for W production in the semi-muonic channel using the ALICE Detector

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Abstract content
 (Max 300 words)

Heavy-ion collisions are the unique tool available to investigate strongly interacting matter at high energy density where the formation of a new phase of matter - the quark-gluon plasma, is expected. The ALICE Muon Spectrometer is specifically designed to study this phase of matter using muonic channel in the acceptance region between 2° and 10° . This study focuses on the analysis of $W^{\pm} \rightarrow \mu^{\pm}$ Monte-Carlo generated data using PYTHIA 6.4 in the AliROOT framework in proton-proton collision at 8 TeV. Here a summary of the results obtained so far is presented.

Apply to be
br> consider for a student
 award (Yes / No)?

YES

Level for award

- (Hons, MSc,

- PhD)?

MSc

Main supervisor (name and email)

sand his / her institution

Jean Cleymans. University of Cape Town.

Would you like to
 submit a short paper
 for the Conference
 Proceedings (Yes / No)?

YES

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