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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 Wˆ±⟶μˆ± 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
 consider for a student
   award (Yes / No)?

YES

Level for award
 (Hons, MSc,
   PhD)?

MSc

Main supervisor (name and email)
and his / her institution

Jean Cleymans. University of Cape Town.

Would you like to <br> submit a short paper <br> for the Conference
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YES

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