**SAIP2012** 



Contribution ID: 435

Type: Oral Presentation

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

Tuesday, 10 July 2012 11:20 (20 minutes)

### Abstract content <br> &nbsp; (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  $W^{\pm} \rightarrow \mu^{\pm} M$  onte-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 <br> &nbsp; award (Yes / No)?

YES

#### Level for award<br>&nbsp;(Hons, MSc, <br> &nbsp; PhD)?

MSc

#### Main supervisor (name and email)<br>and his / her institution

Jean Cleymans. University of Cape Town.

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

YES

**Primary author:** Mr SENOSI, KGOTLAESELE JOHNSON (University of Cape Town/iThemba LABS for the ALICE collaboration)

**Presenter:** Mr SENOSI, KGOTLAESELE JOHNSON (University of Cape Town/iThemba LABS for the ALICE collaboration)

#### Session Classification: NPRP

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