



Contribution ID: 177

Type: **Poster Presentation**

## Investigation of $W^{+/-}$ bosons production with different Parton Distribution Functions in proton-proton collisions

Wednesday, 10 July 2013 17:40 (1 hour)

### Abstract content <br> (Max 300 words)

Analysis of Monte Carlo generated data using PYTHIA 6.4.21 with an emphasis on different Parton Distribution Functions (PDFs) and center of mass energies with protons as colliding systems. This study investigates the effect of PDFs and center of mass energy in the production of  $W^{+/-}$  bosons at forward rapidity.

### Apply to be<br> considered for a student <br> award (Yes / No)?

Yes

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

Msc

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

Zinhle Buthelezi and Jean Cleymans

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

NO

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

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

**Session Classification:** Poster2

**Track Classification:** Track B - Nuclear, Particle and Radiation Physics