Contribution ID: **326**   Type: **Poster**

PYTHIA8 predictions to the Underlying event measurements using different PDF sets

Friday, 8 July 2022 20:10 (20 minutes)

In this study, we use PYTHIS8.2 for the simulation of Multiparton Interactions using different PDF sets from LAHPDF6. Altogether five parameters were selected for the final tune depending on their sensitivity to the selected observables at 13TeV published by ATLAS Collaboration. Simulated experimental analysis data is obtained using the Rivet analysis toolkit. These tunes describe the selected data reasonably well. These tuning results are also compared with the other popular choices.

In-person participation

No

Primary author: FIRDOUS, Nameeqa (GIFT University Gujranwala Pakistan)

Co-authors: Mr JUNAID, Malik; Dr FAHEEM, Muhammad (GIFT University); Dr SHAH, Mattiullah (University of Wah)

Presenter: FIRDOUS, Nameeqa (GIFT University Gujranwala Pakistan)

Session Classification: Poster Session

Track Classification: Strong interactions and Hadron Physics