Improving ParticleNet to better detect W boson decays into 3 charged pions.

Logan Switzer

Experiment Goals

- Compact Muon Solenoid (CMS)
 - Helping reconstruct W
 bosons from 3 charged
 pions to get a more precise
 measurement of the W
 boson mass.



- Riccardo Salvatico
- Debabrata Bhomik

Photon/Electron Reconstruction Group



Trigger Systems!!

- CMS uses DeepTau for W -> 3
 Charged Pions.
- I will be improving ParticleNet.



Helpful and Supportive Mentors

First Internship

Exploration!!

