



Panjab University Chandigarh



Lokesh Kumar
(Faculty)
STAR & ALICE



Harsimran Singh
Master student



Khushi Singla
Master student

Currently working in vertexing @ ePIC simulations
Harsimran: *Few-track simulations*
Khushi: *PYTHIA DIS simulations*

Group Experience

Detector Hardware: ALICE-PMD Detector fabrication, testing and installation

Simulations: STAR/ALICE PMD detector simulations, FOCAL simulations, Physics simulations, EIC/ePIC simulations

Physics Data Analysis: Fluctuations and Correlations, Light Flavour particle production, (Anti-) nuclei production, Strangeness production, Resonance production...

Previous involvement in EIC:

- EIC Geant4 Simulation based on sPHENIX Solenoid (momentum resolution)
- Fun4All Simulation (Energy resolution)

Current efforts: Vertexing @ ePIC

Evaluate the vertexing algorithm performance of ePIC.

For Jet & HF group:

Task #4: DCA-based ROC curves (possible TDR plot)

Task #5: PID-based ROC curves

Looking forward to contributing to the group!