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.

Future Plan:
- After the finalization of detector hardware project, work for related simulations (dRICH etc..).
- In-kind contribution in terms of manpower for hardware related activities.