

About the group@IITPatna

Neha Shah
Assistant Professor

Present Collaborations: [STAR@RHIC](#), [ePIC@eRHIC](#)

Current Student: 01 PhD

Completed Projects: 05 MSc, 02 BTech

**Resource available:
2 Msc/BTech students**

Research Activities

● Physics analysis:

- Production dynamics of η - meson in pp with the WASA-at-COSY experiments
- Understanding strong interactions using the femtoscopy and strangeness production at STAR
- Understanding production mechanism of deuteron at RHIC and LHC

Simulations:

- Worked briefly on ECAL simulation @ UCLA
- Simulations for neutron spectrum in ${}^7\text{Li}(p,n)$ reactions at low energy

Possible Contributions at ePIC

- Detector (ECAL) and Physics simulations (SIDIS, Exotics, Properties of CNM)