

Plans for Simulation Tools

Marcello Maggi
INFN Bari

SINP Plans

The Saha Institute of Nuclear Physics (SINP), Kolkata, India is willing to contribute in the following areas:

- GEM Geometry
- GEM Simulation
- GEM Digitization

Geometry Tasks

- GEM GEOMETRY descriptions
- GEOMETRY Builders
- Specific GEM DET ID definition
- SIMULATION GEANT threshold parameters

Simulation Tasks

- SIMULATION FRAMEWORK
- Implementation of a Trivial RPC-like Model (eff = 100%, cluster size = 1, perfect timing)
- Implementation of a Simple RPC-like Model (average parameters common to all chamber)
- Simulation Vs Test Beam Data comparison, parameter tuning
- Implementation of a GEM Readout Model
- As soon as data are available perform Simulation Vs Test Beam Data Comparison

Ojective

- The work should start asap
- And a first GEM-like chain for single muon production need to be ready by the summer