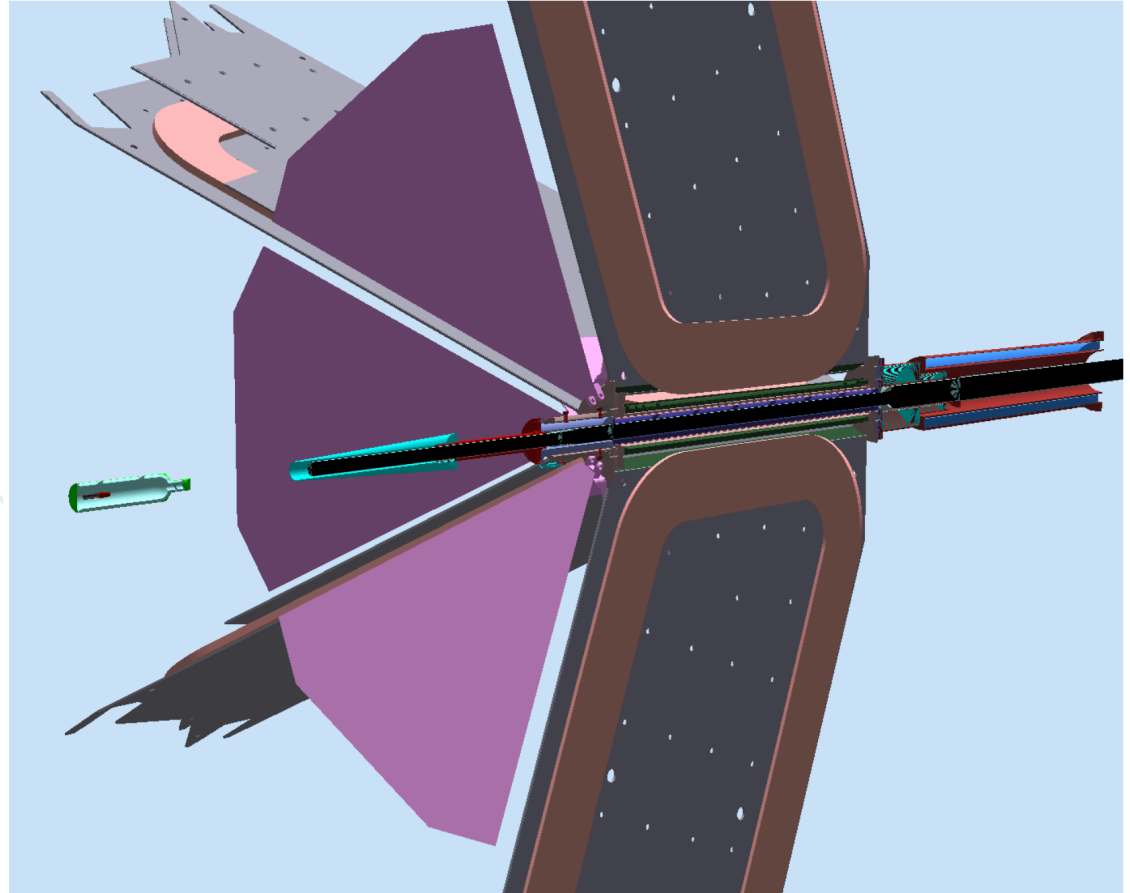


Background Studies with Positron beam in CLAS12

Latifa Elouadrhiri

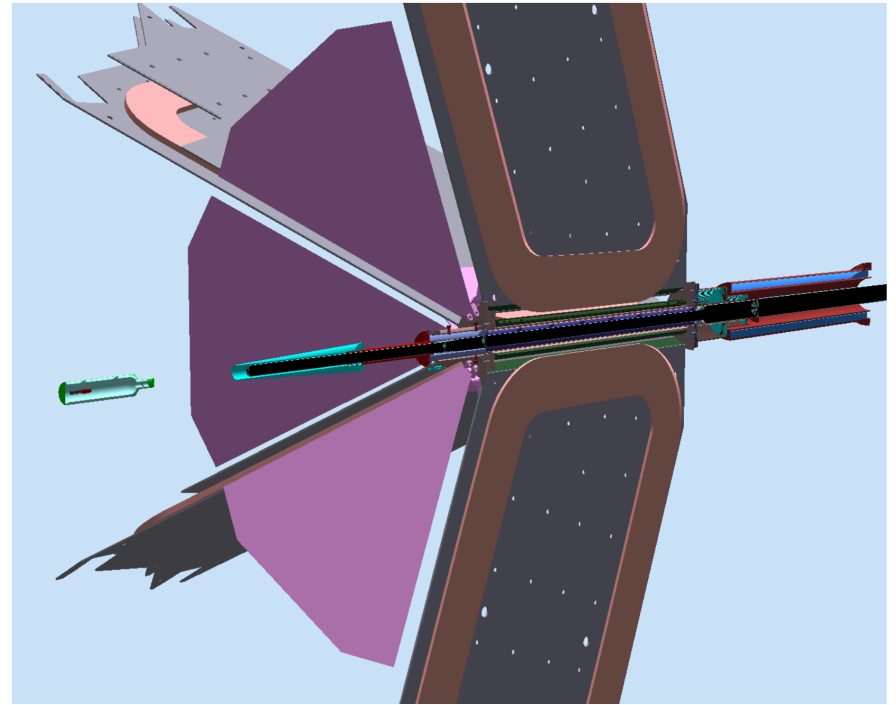
05/06/2020



Background Studies for Positrons in CLAS12

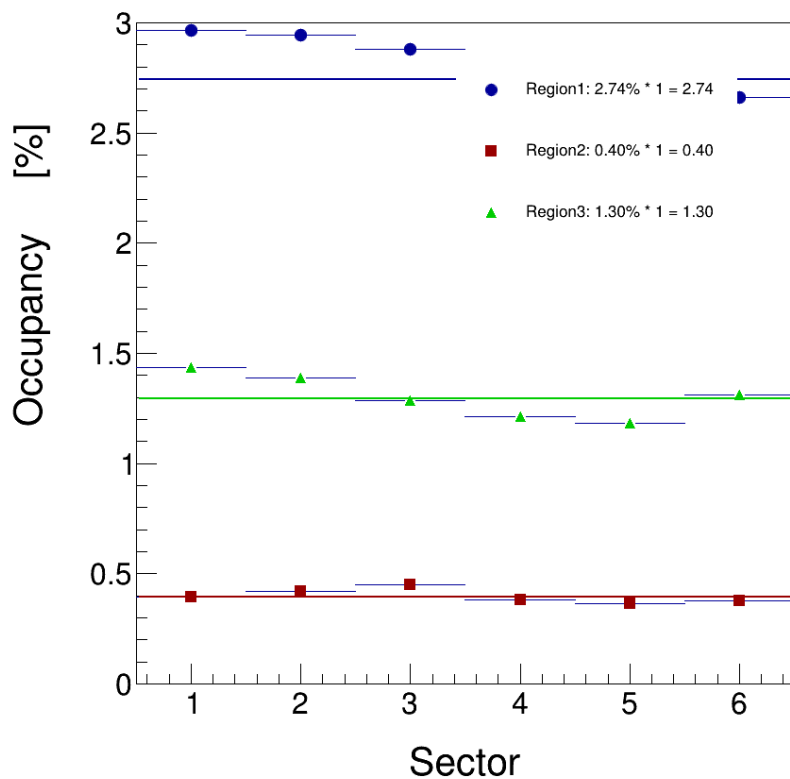
Experiment Configuration for simulations:

- RGA configuration
- Forward Tagger on
- Simulations with positron beam
- Simulations for electron beam
- Torus field: inbending for electron beam and reversed polarity when simulating background with positron beam
- Solenoid: full field same polarity for both positron and electron beams



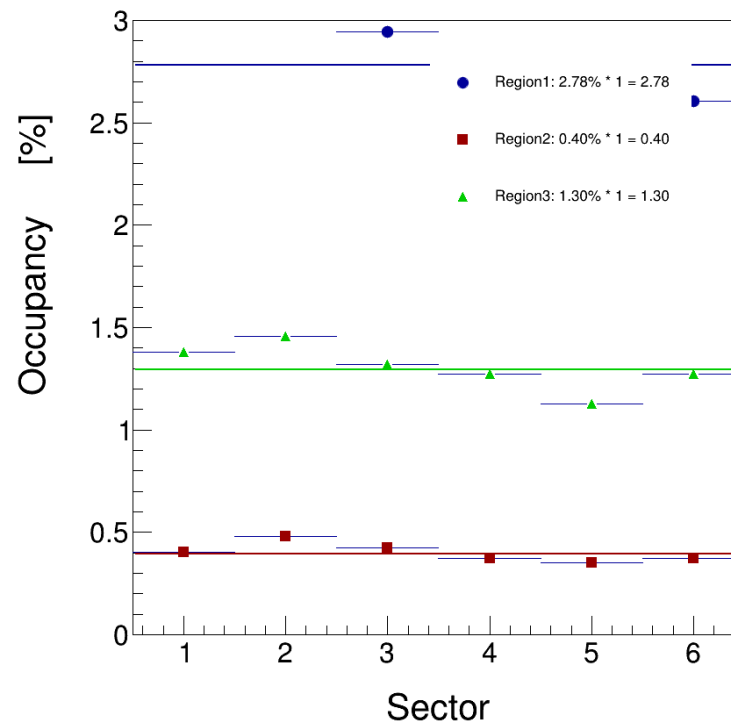
DC occupancies - Average

Drift Chamber Occupancy for rga-spring2019_pos



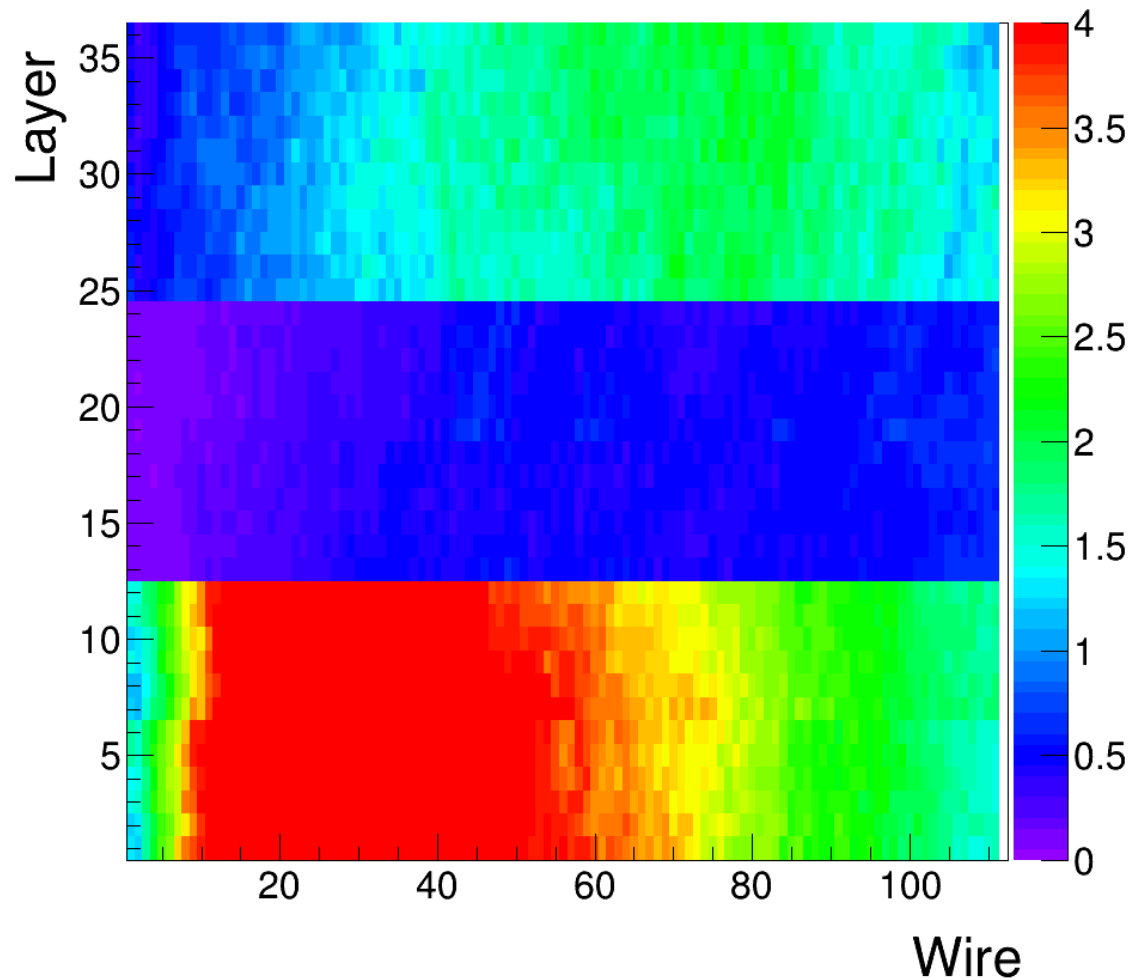
Positron beam

Drift Chamber Occupancy for rga-spring2019

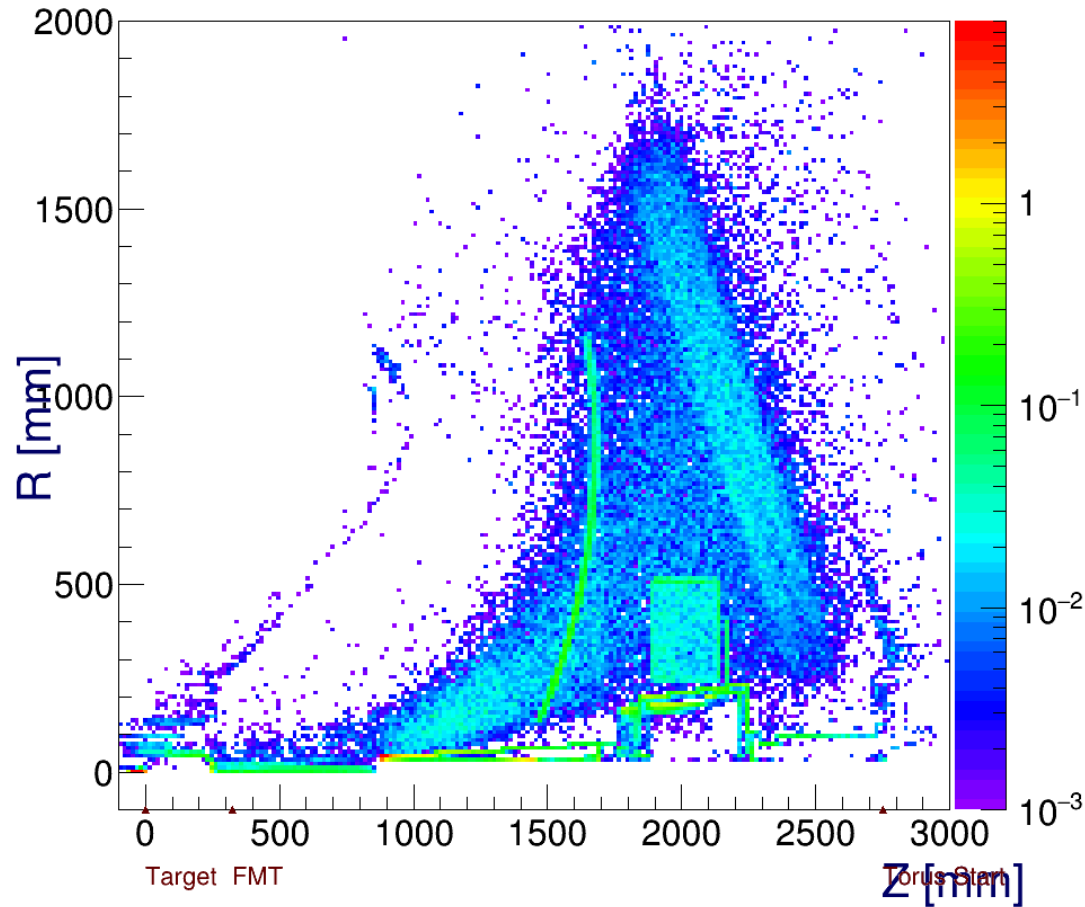


Electron beam

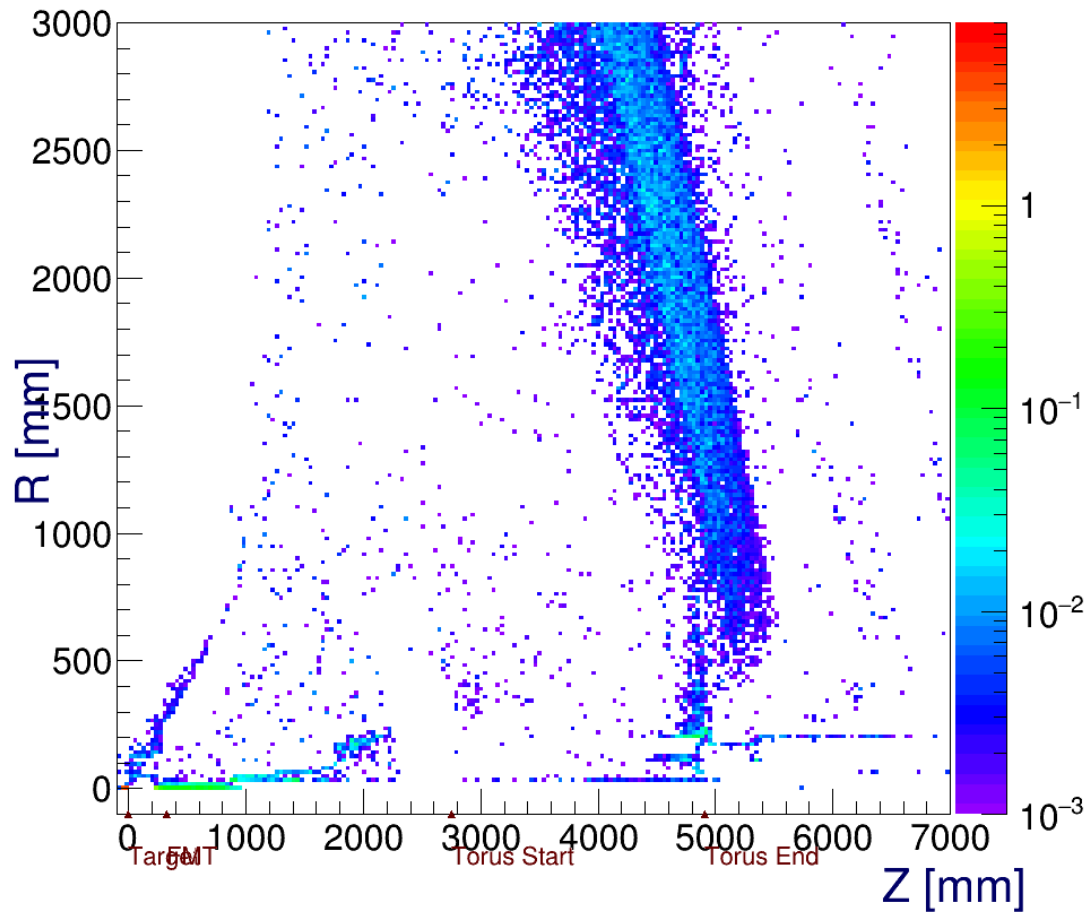
DC Occupancies as function of wire



Origin of the tracks in Region 1



Origin of the tracks in Region 3



Type of background particles

