

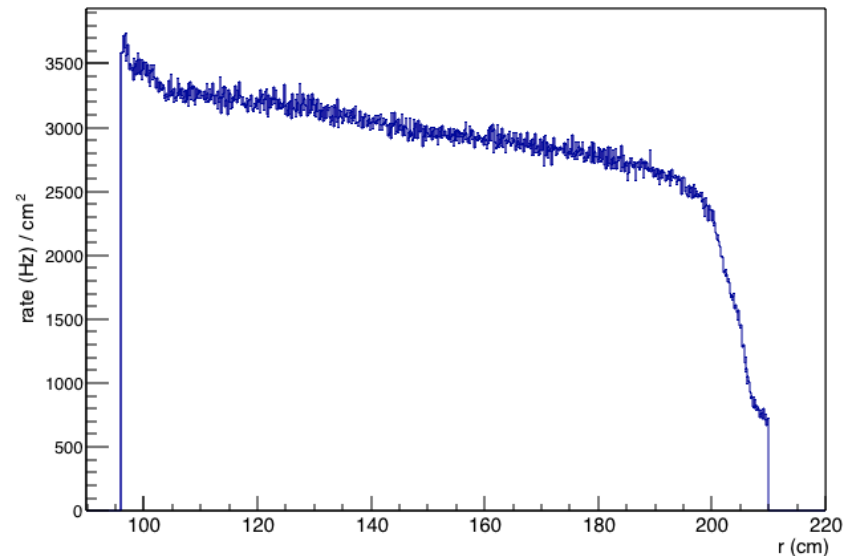
MRPC update

Sanghwa Park

MRPC rate

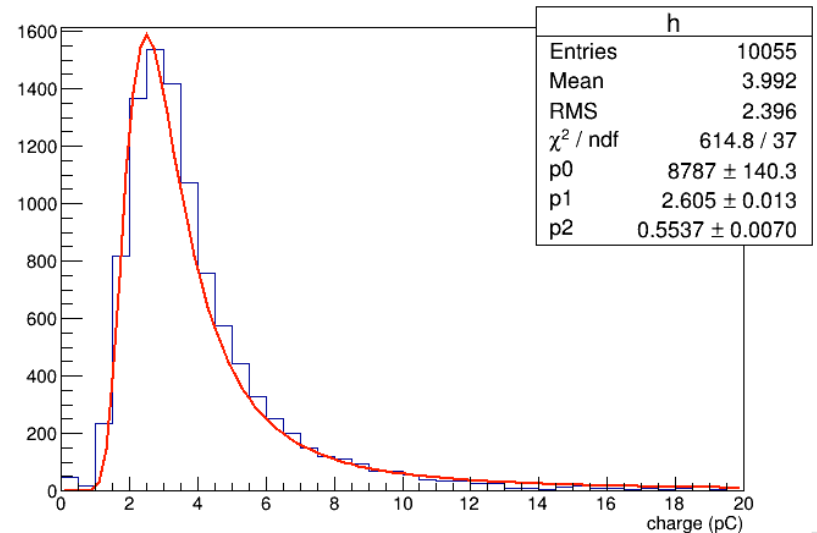
- Incident particle rate:
 - Beam on Target simulation
 - MRPC acceptance: full azimuthal coverage, R (96, 210) cm

Total: 325 kHz/cm²
photon: 314 kHz/cm²
e: 7.24 kHz/cm²
p: 0.12 kHz/cm²
n: 2.44 kHz/cm²

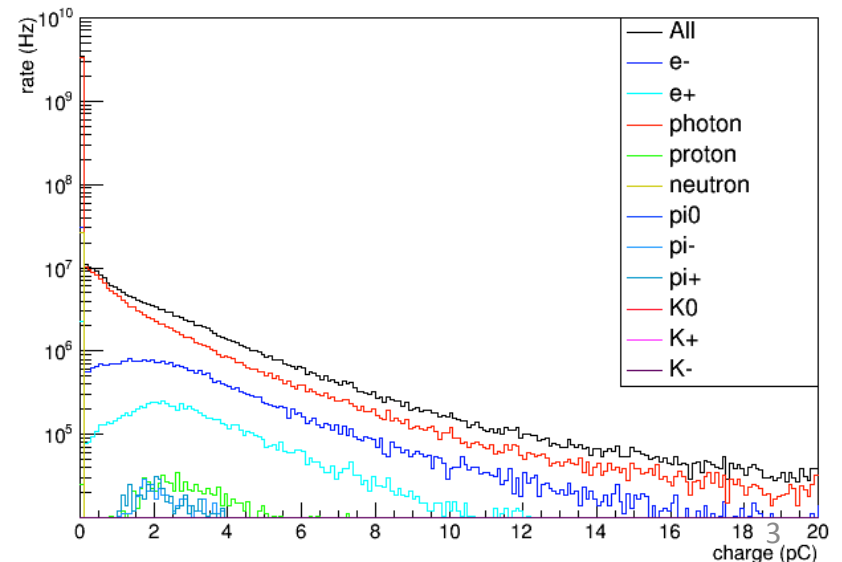


MRPC rate

- Single electron simulation: 1.3 GeV electron, total induced charge per electron has a peak at 2.6 pC

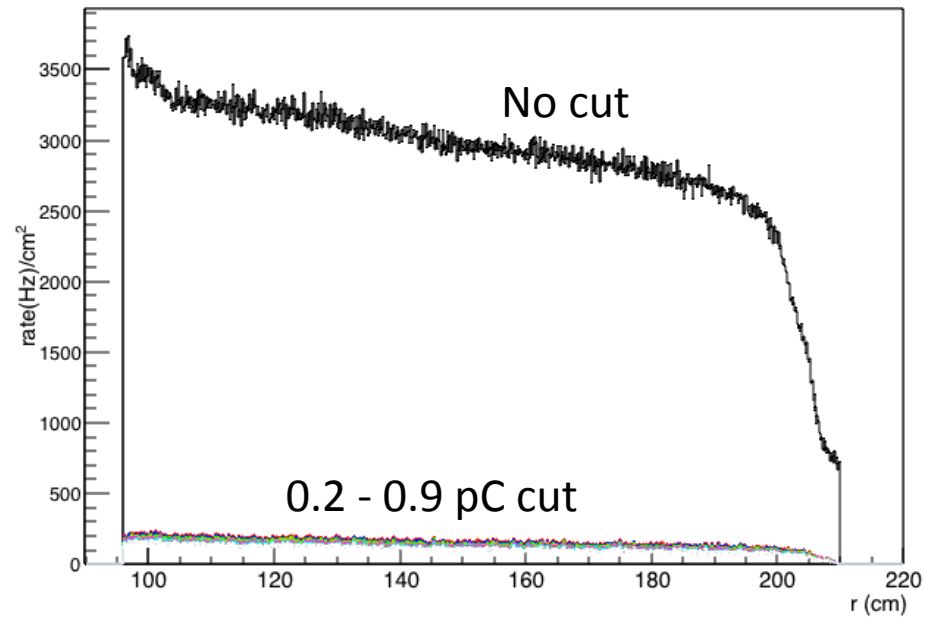
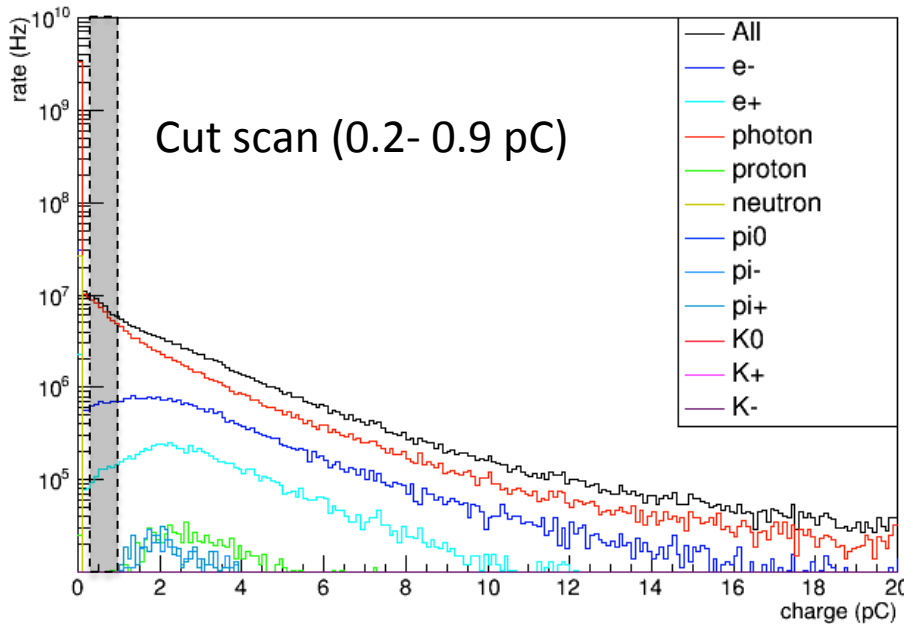


- Charge distribution from beam on Target simulation:



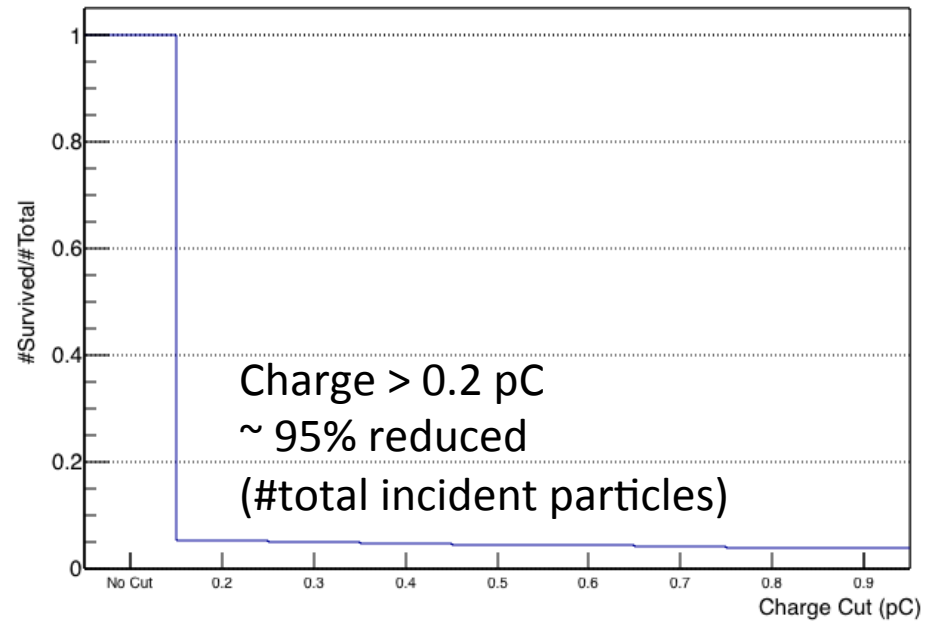
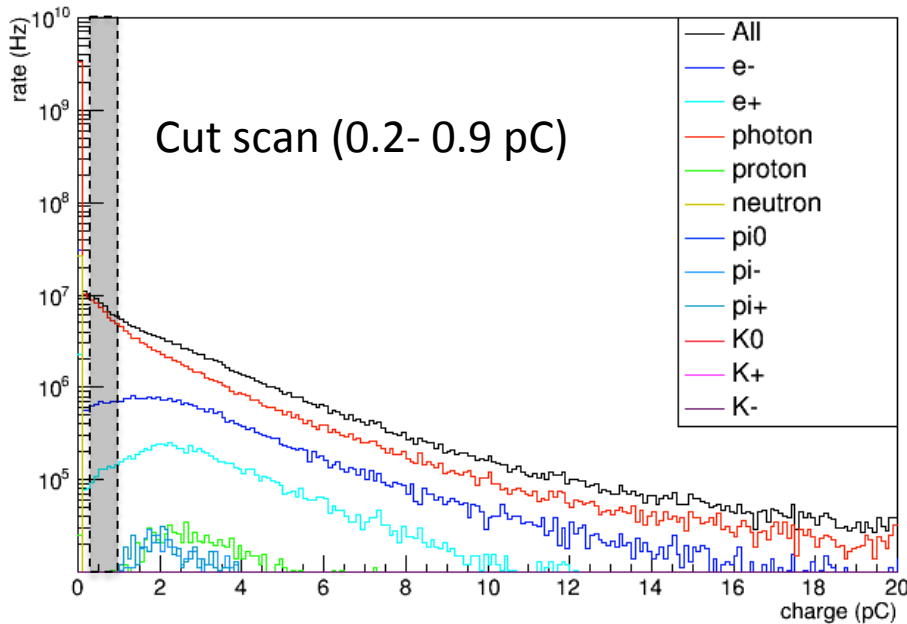
MRPC rate

- Charge cut scan: scan range (0.2 - 0.9) pC



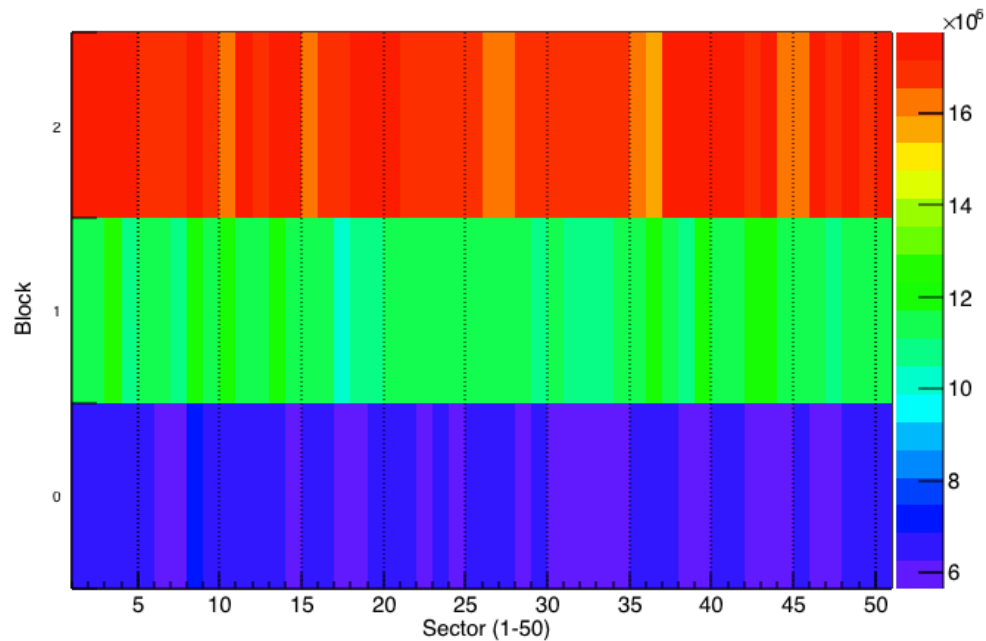
MRPC rate

- Charge cut scan: scan range (0.2 - 0.9) pC



backup

- MRPC is divided into 50 sectors, 3 blocks:
 - 50 sectors in ϕ
 - 3 blocks in r :
 - block0: (105, 120) cm, block1: (120, 150) cm, block2: (150, 210) cm



X-Y distribution at the virtual front plane (incident particle)

