

Result of radial distribution of MC points in MUST1 & MUST2 using GEANT3 & GEANT4

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Analysis detail:

MC data: Generator: UrQMD

Collision system: Au-Au

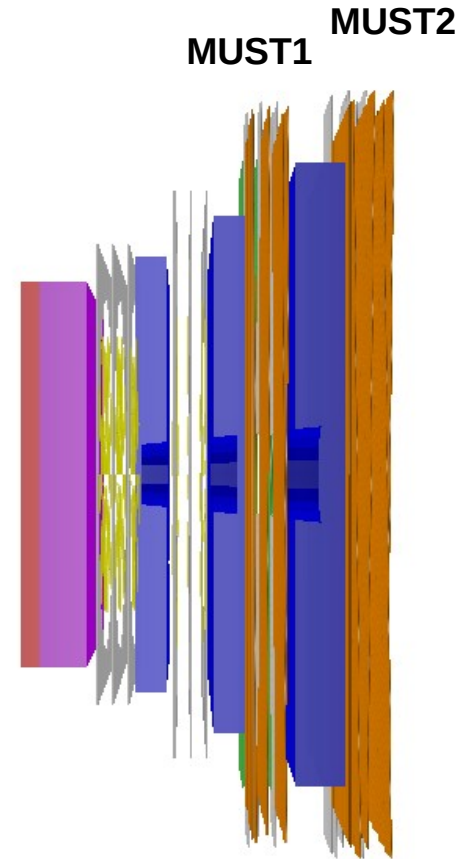
Beam energy: 10 AGeV

Centality: Minimum bias

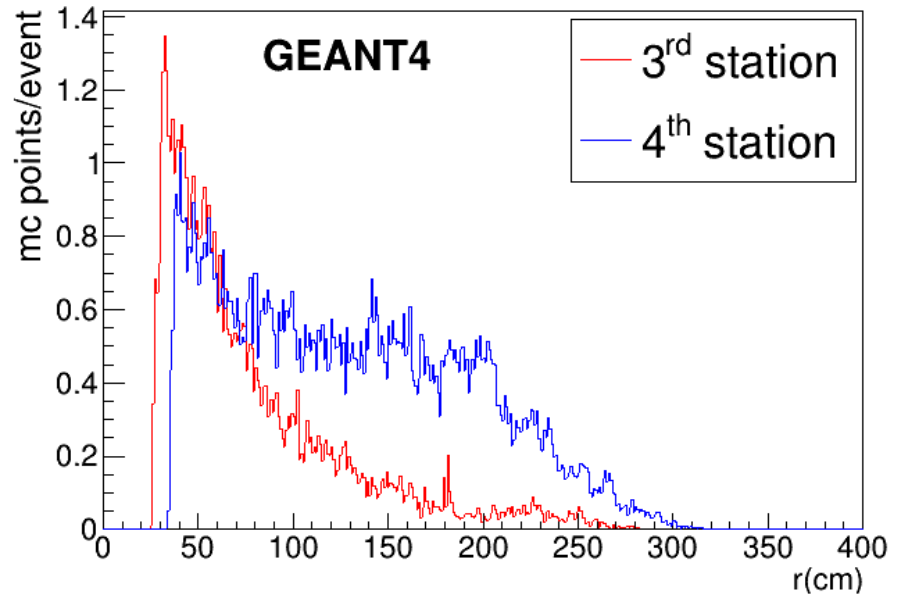
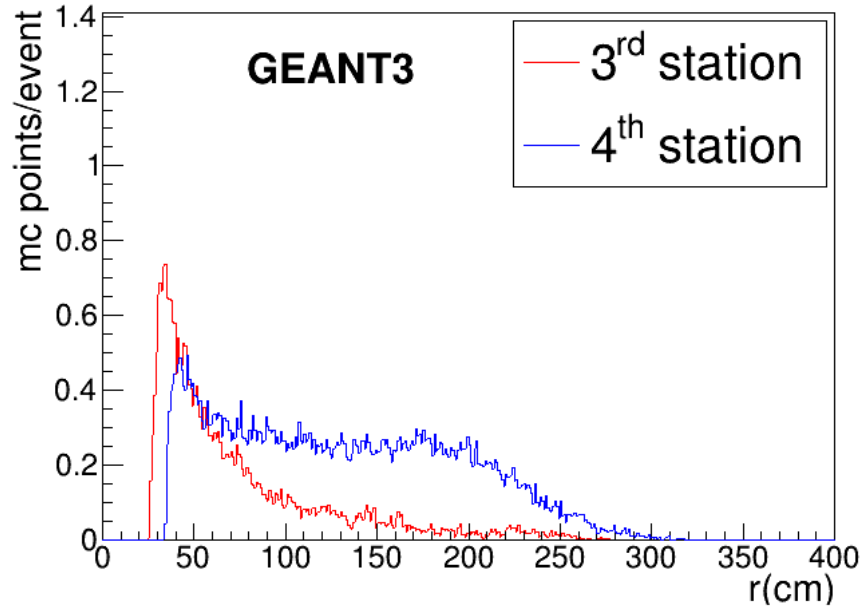
Statistics: 100 events

Geometries:

```
magnetGeoTag = "v22b";  
pipeGeoTag   = "v21d:v21i";  
stsGeoTag    = "v22c";  
muchGeoTag   = "v27e_sis100_1m_1mvm";  
trdGeoTag    = "v20c_1m";  
tofGeoTag    = "v21a_1m";  
platGeoTag   = "v22b";  
fieldTag     = "v22b";
```



Radial distribution of MC points in 3rd station & 4th station



	GEANT3	GEANT4	% difference
Peak values of point density	0.74	1.35	~82

Next steps:

1. Measurement of rates per straw for central events
2. Start mCBM simulation