

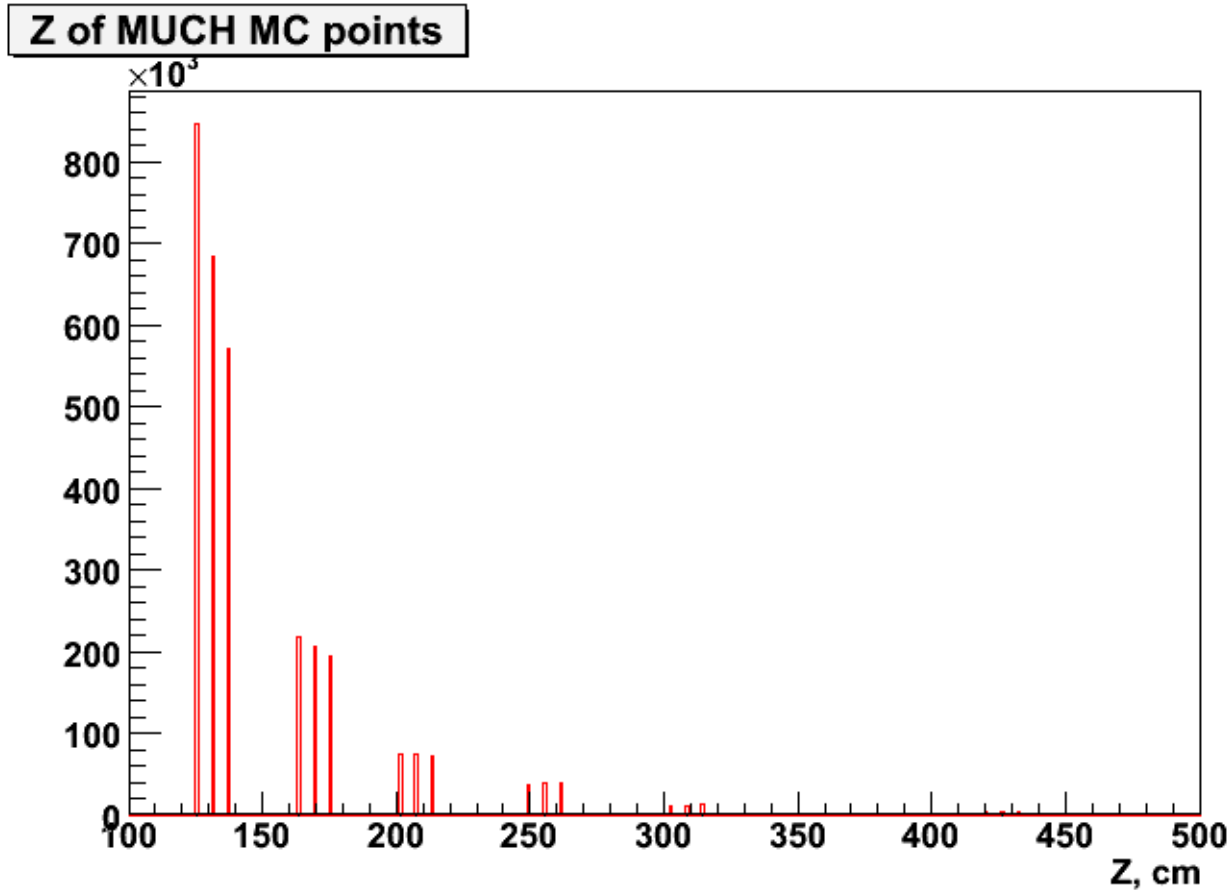
1st CBM-Russia-JINR
Collaboration Meeting
May 19-22, 2009, Dubna



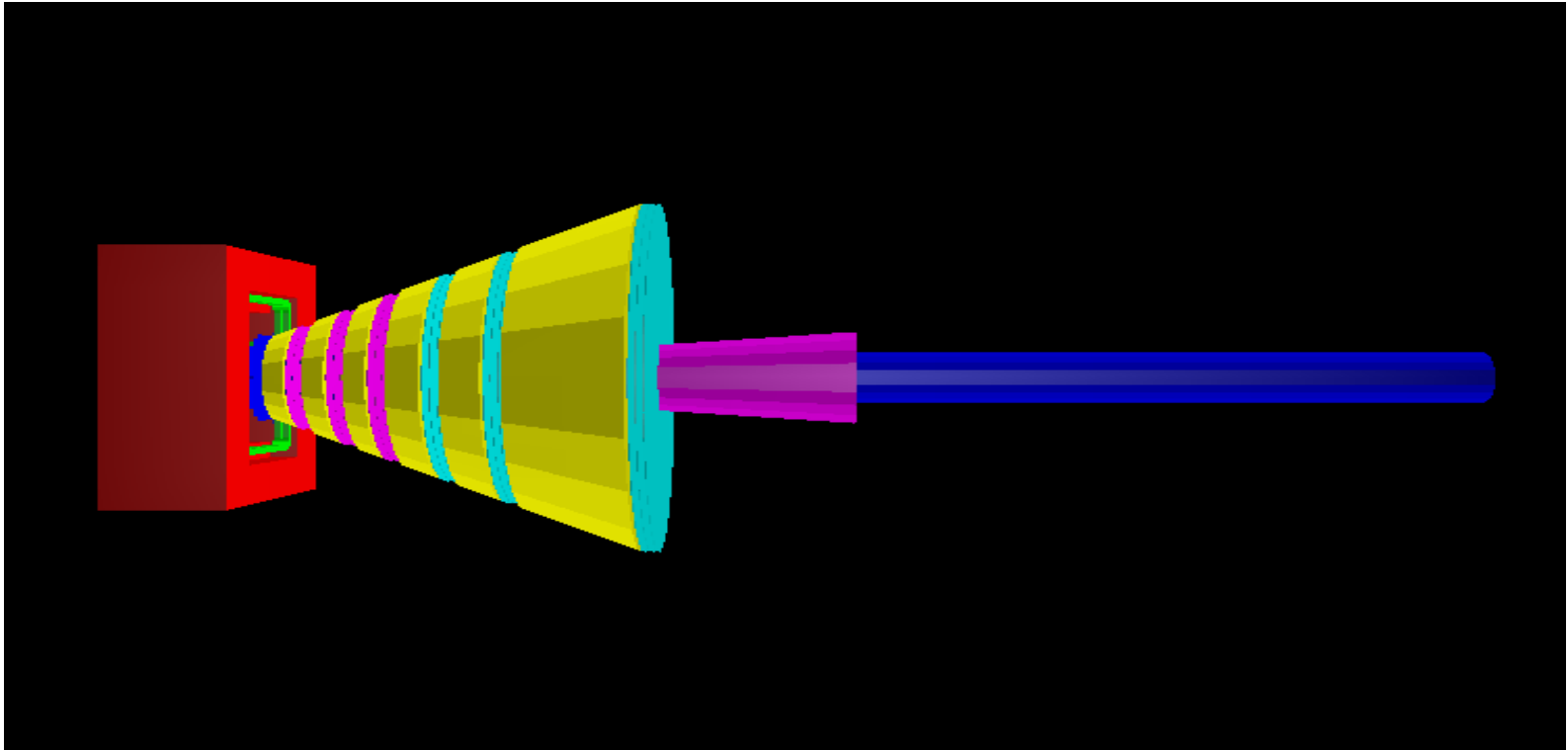
Straw tubes in MUCH: current status of the simulation software

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Motivation: hit multiplicity longitudinal profile



Geometry



Tube diameters: 4, 4, 4 mm

6 layers per (super)station arranged in 3 doublets:

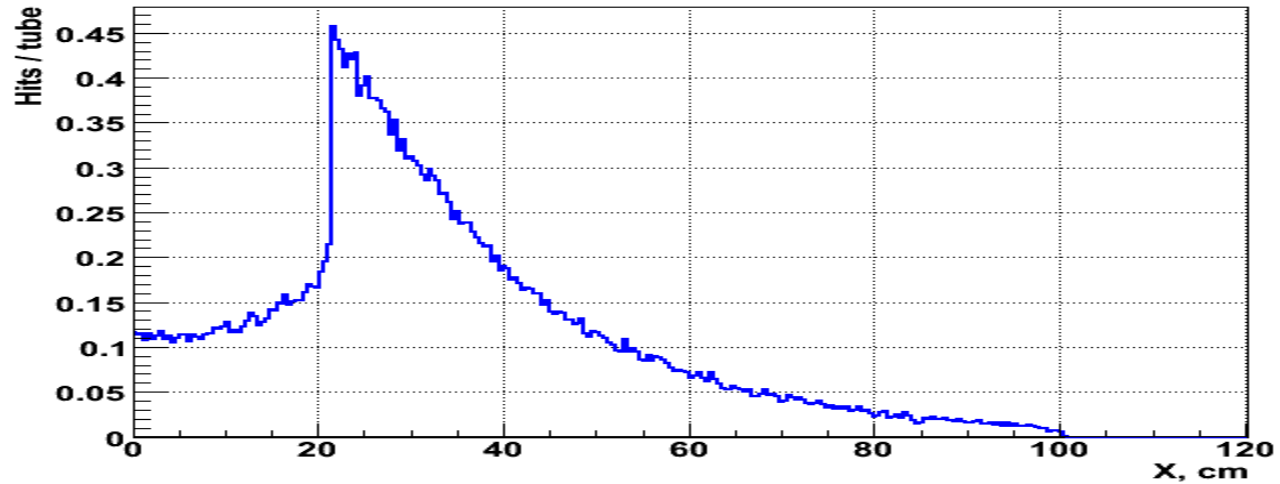
Y, U (+10°), V(-10°)

Detector occupancy

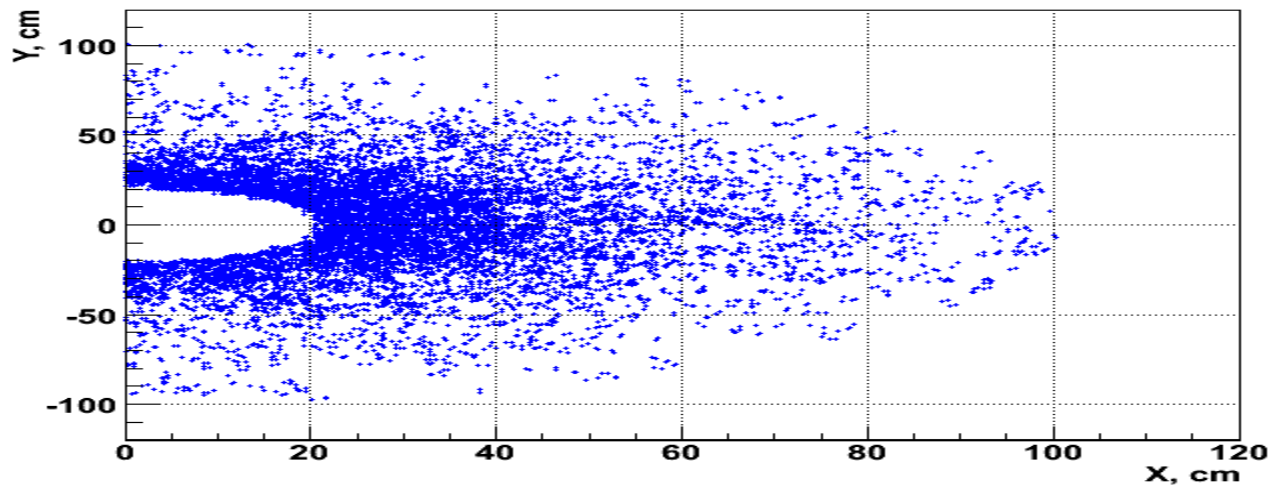
- Baseline design: 4 mm diameter tubes
(6 mm, 10 mm)

Straw tube occupancy for Au-Au @ 25 GeV

Tube "occupancy" vs X: station 3

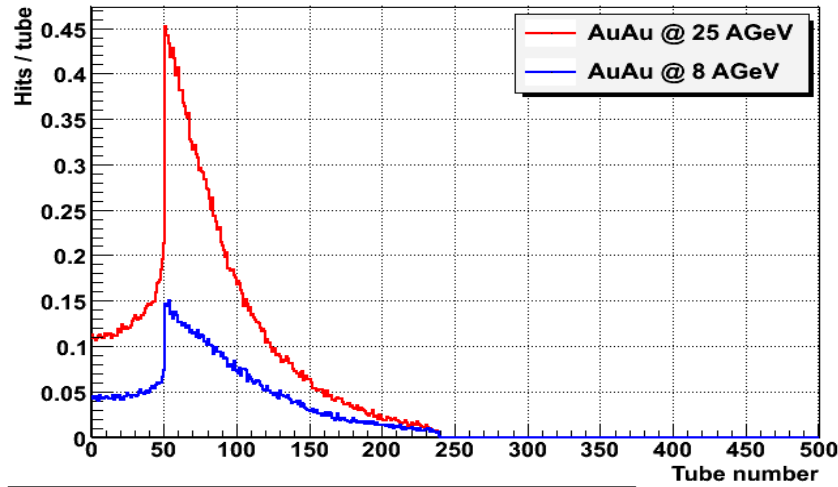


50 events in station 3

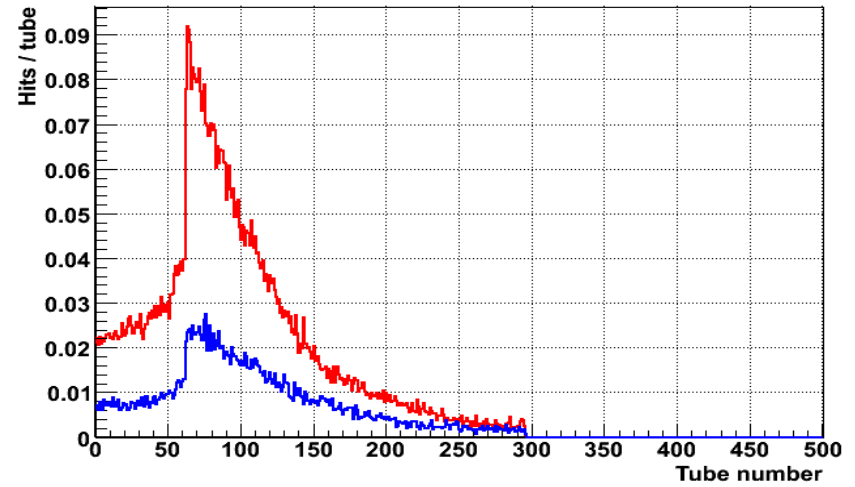


Straw tube occupancy for Au-Au

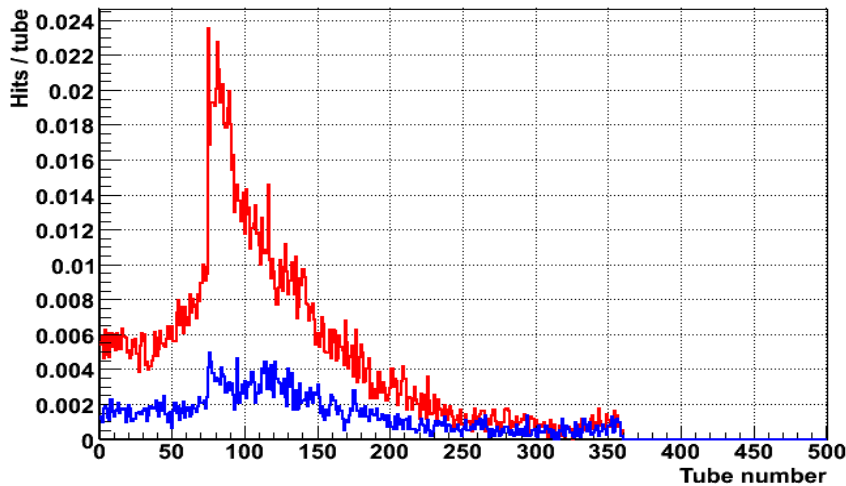
Tube "occupancy" vs tube number: station 3



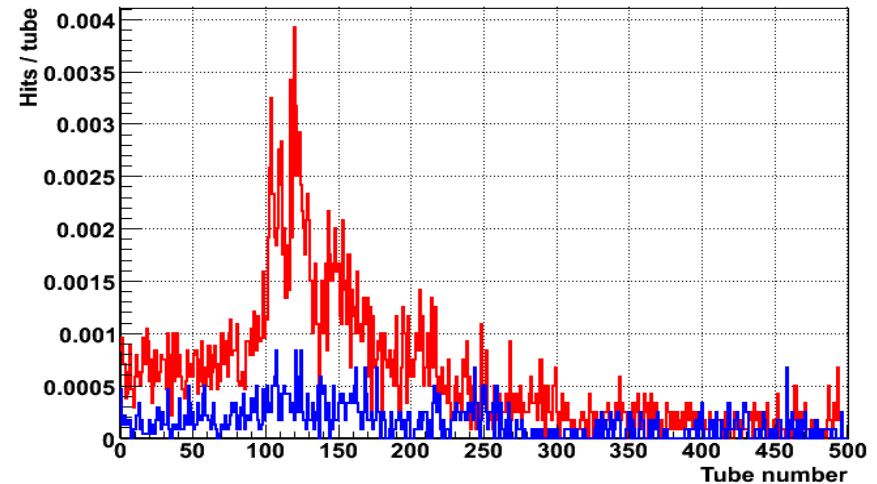
Tube "occupancy" vs tube number: station 4



Tube "occupancy" vs tube number: station 5

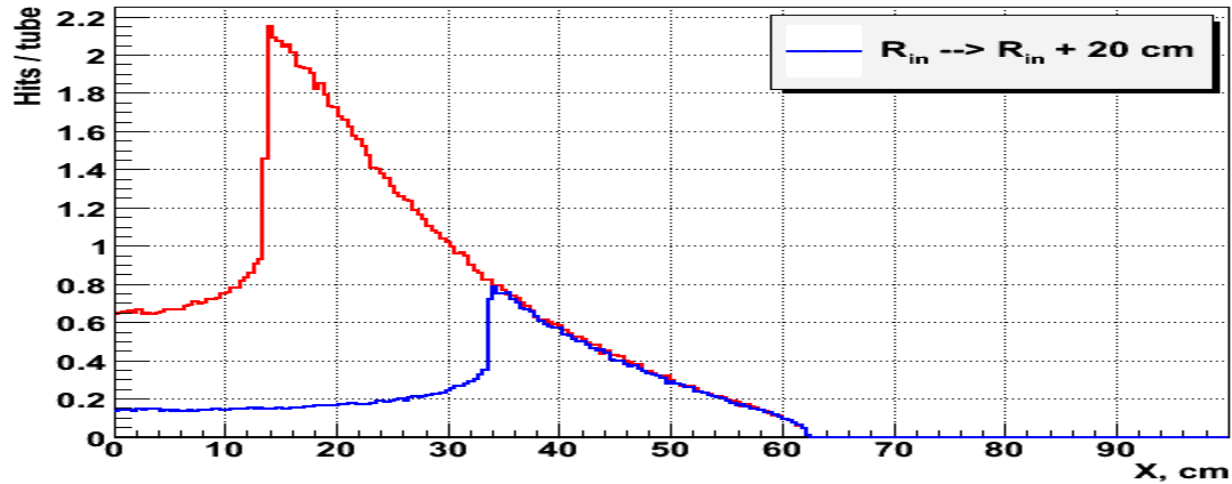


Tube "occupancy" vs tube number: station 6

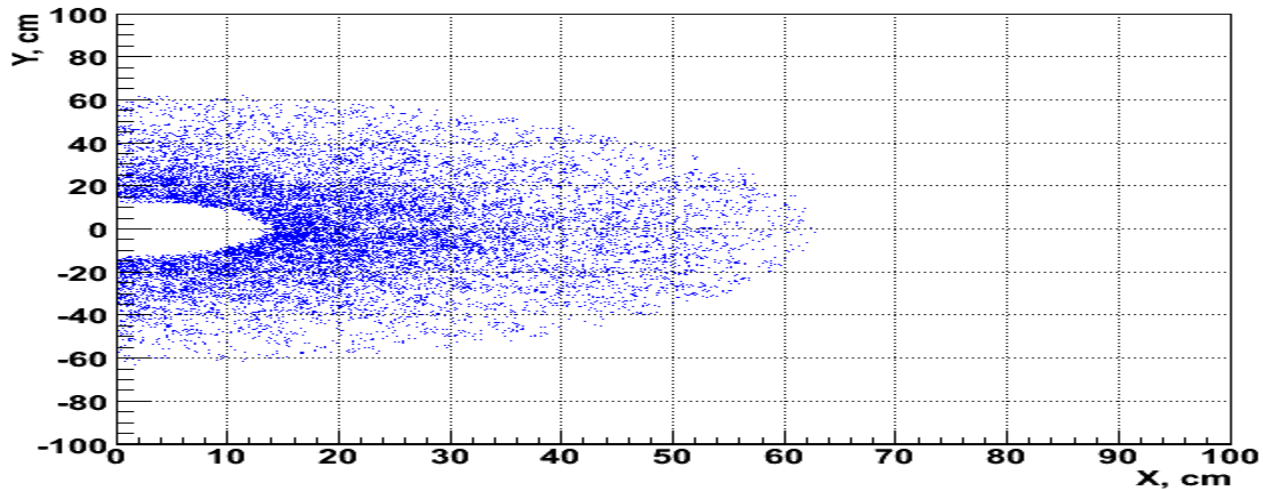


Straw tube occupancy for Au-Au @ 8 GeV

Tube occupancy: station 1



20 events in station 1



Straws in CBMROOT

- forum.gsi.de : CBMROOT-MUCH-Straws in MuCh
- The latest approach in SVN trunk:
 - detector type definition at module level (mixed GEM-straw stations);
 - digitization and hit finding are being implemented as separate tasks for different detector types;
 - straw detector response has been already described;
 - LIT tracking has been already modified to include straw hits and its performance tested.

Summary

The software for the straw tube part in SVN trunk will be ready pretty soon.