

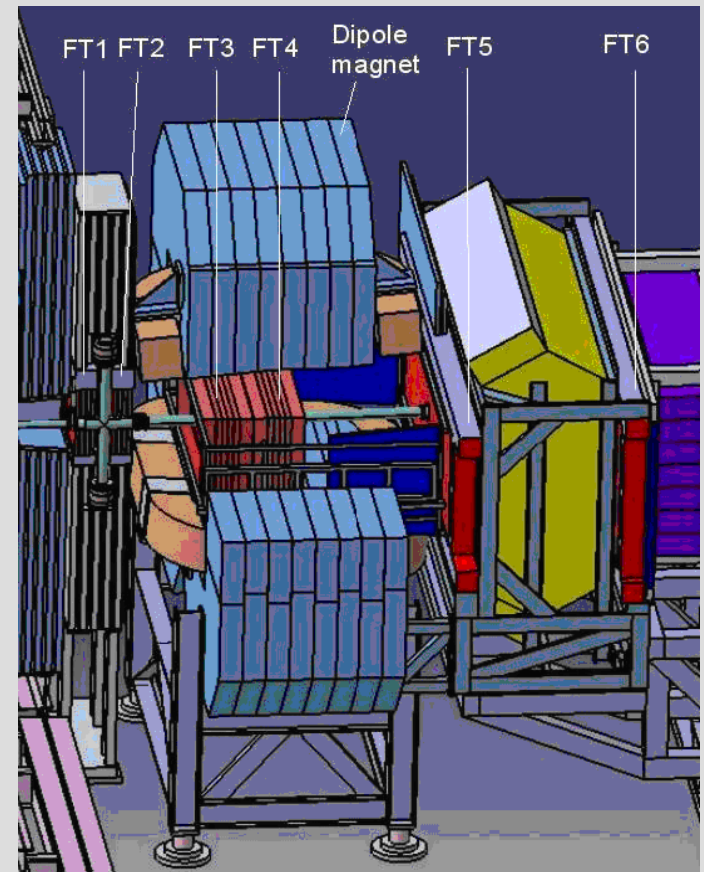
pbar-p simulations for FTS

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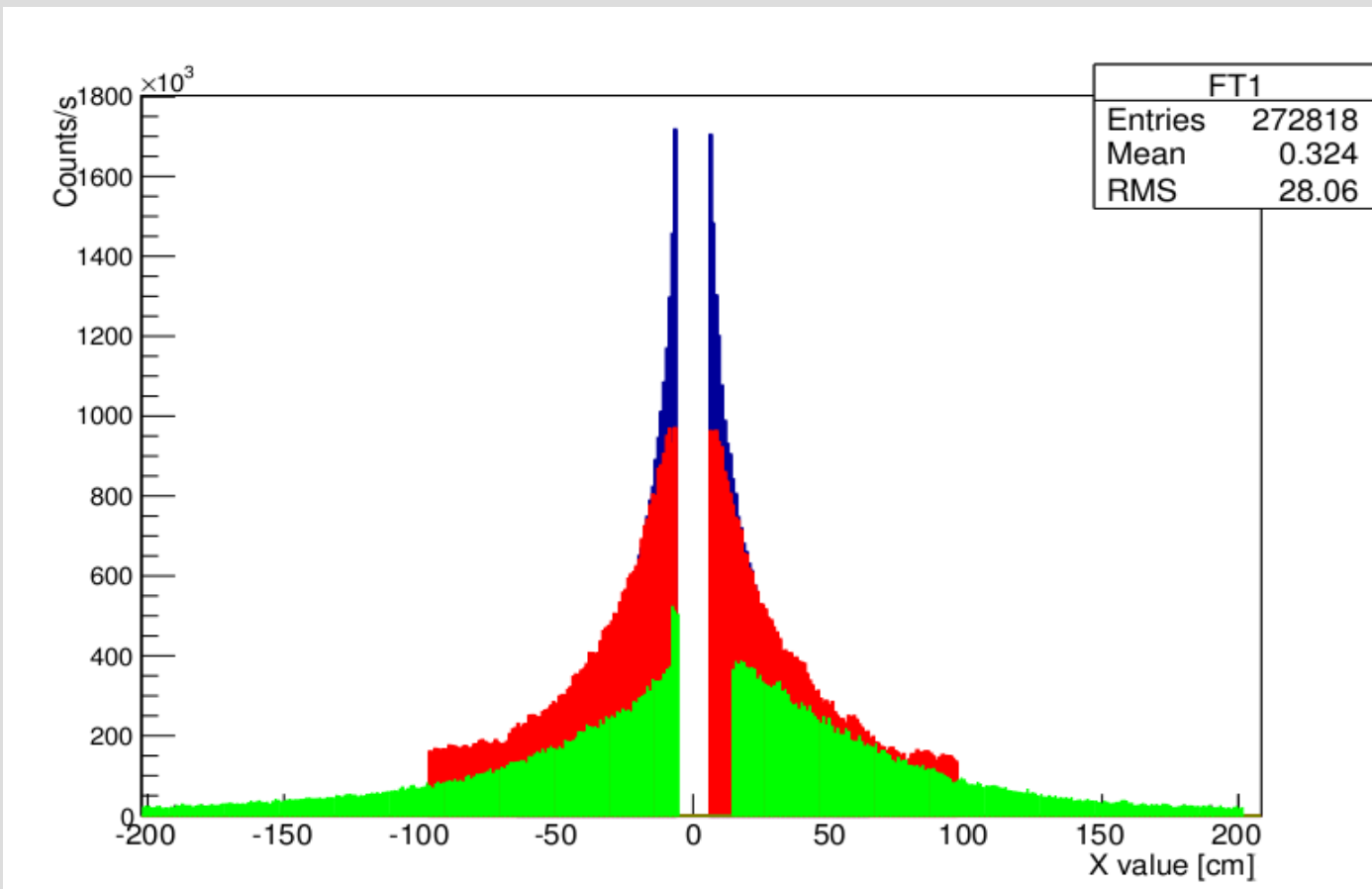
Menu:

- Simulation done for FT1, FT3 and FT5;
- Two types of geometry included, the real one (fig on the right) and the so called „dummy geometry” (three, cube like structures were placed instead FT(1,3,5), and also no beam pipe included);
- Distributions of counts/s per straw;
- Track multiplicity for FT1;
- Distributions of momenta in FT1, FT1+FT3, FT1+FT3+FT5;
- Plots showing counts/cm²/s vs r for different FT;
- Setting: Beam momentum at 15 GeV/c; Reaction intensity 2×10^7 ;



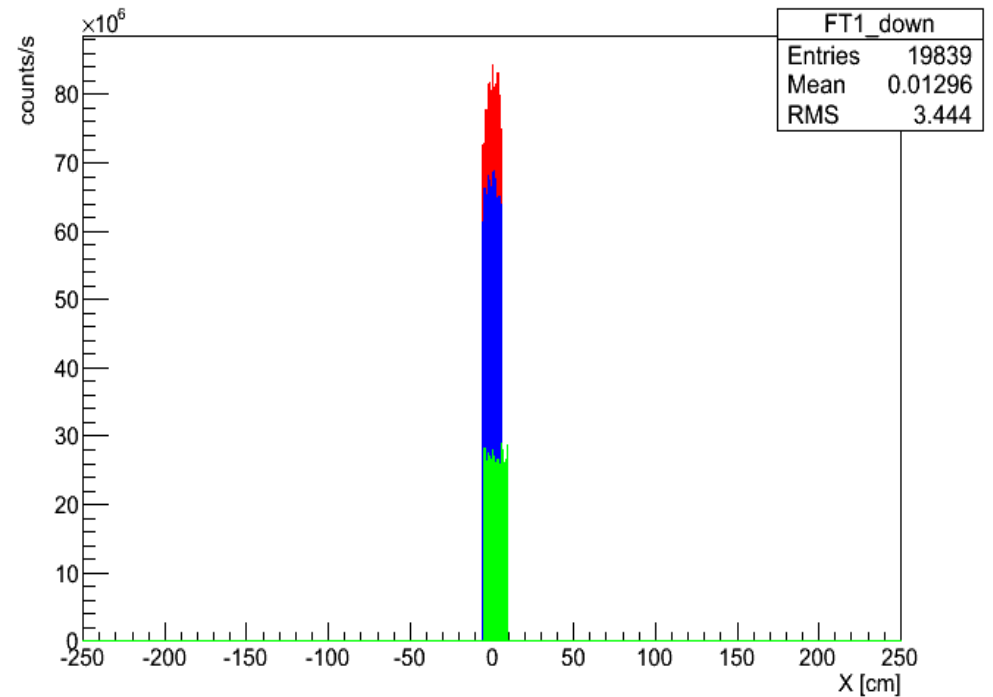
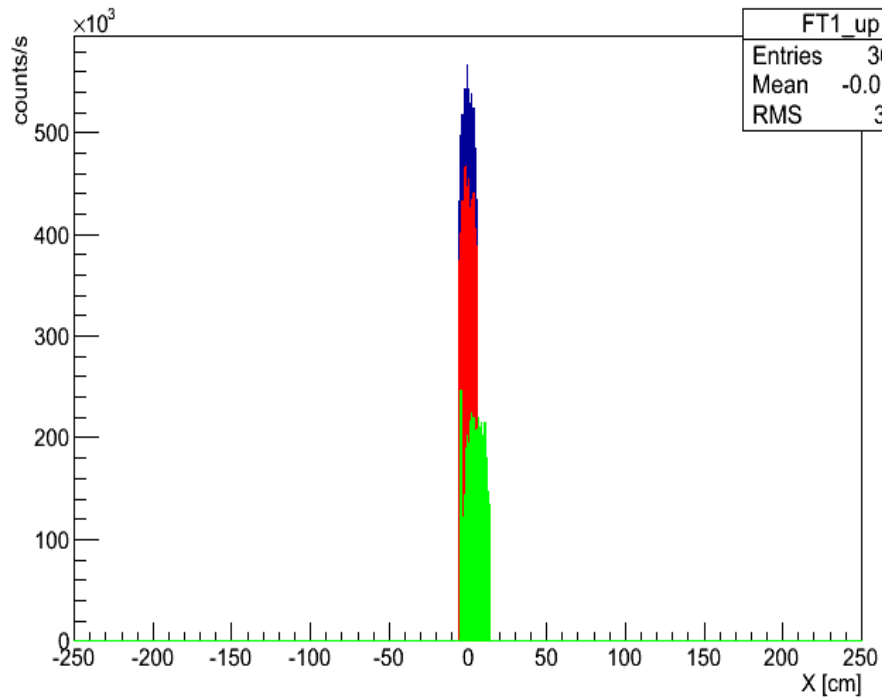
Counts per straw

- Assuming the interaction rate 2×10^7
- Blue - FT1; Red- FT3; Green- FT5;



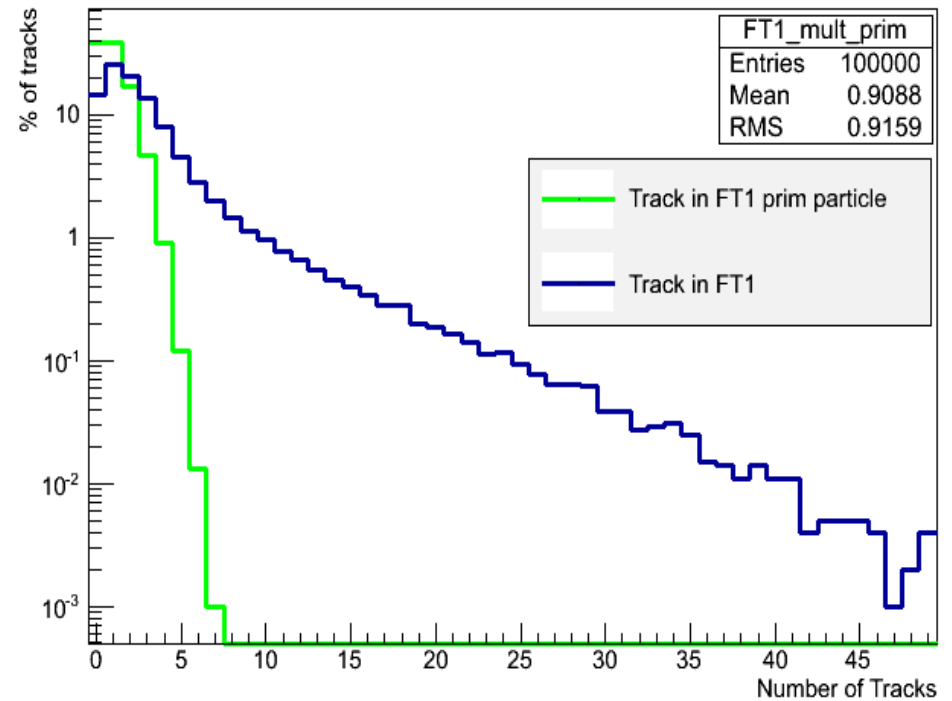
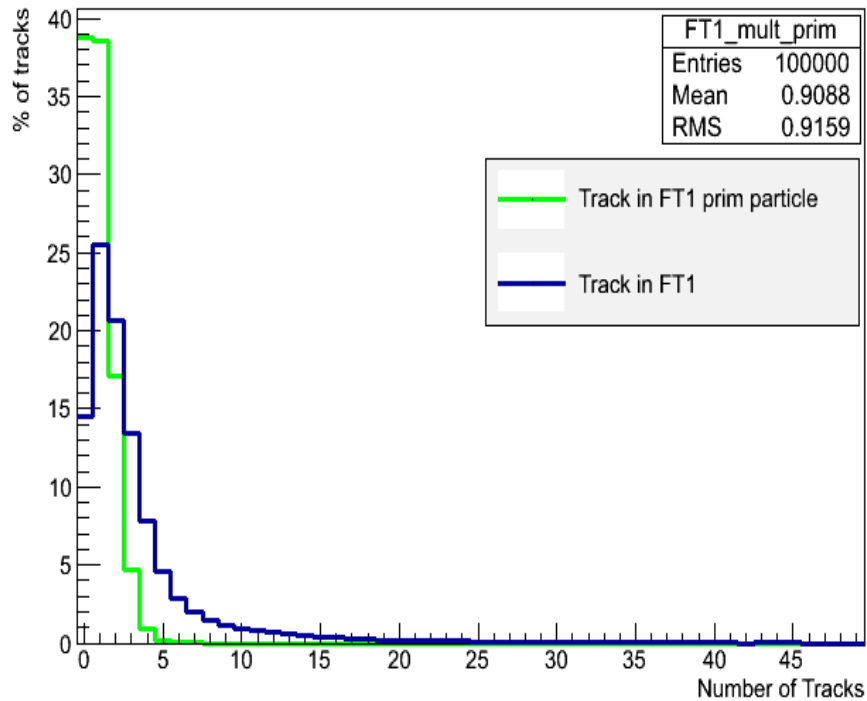
Beam pipe area UP& DOWN

- Same settings [upper straws(left) & straws below(right)];



Track multiplicity in FT1 (norm vs log scale)

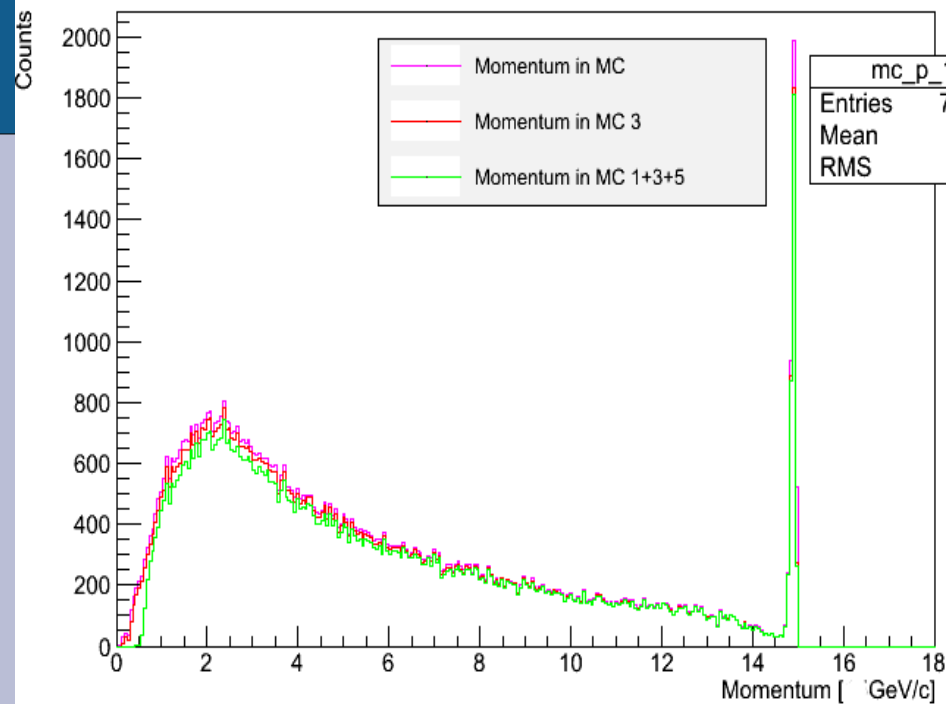
- Blue- all particle & Green- primary particle only



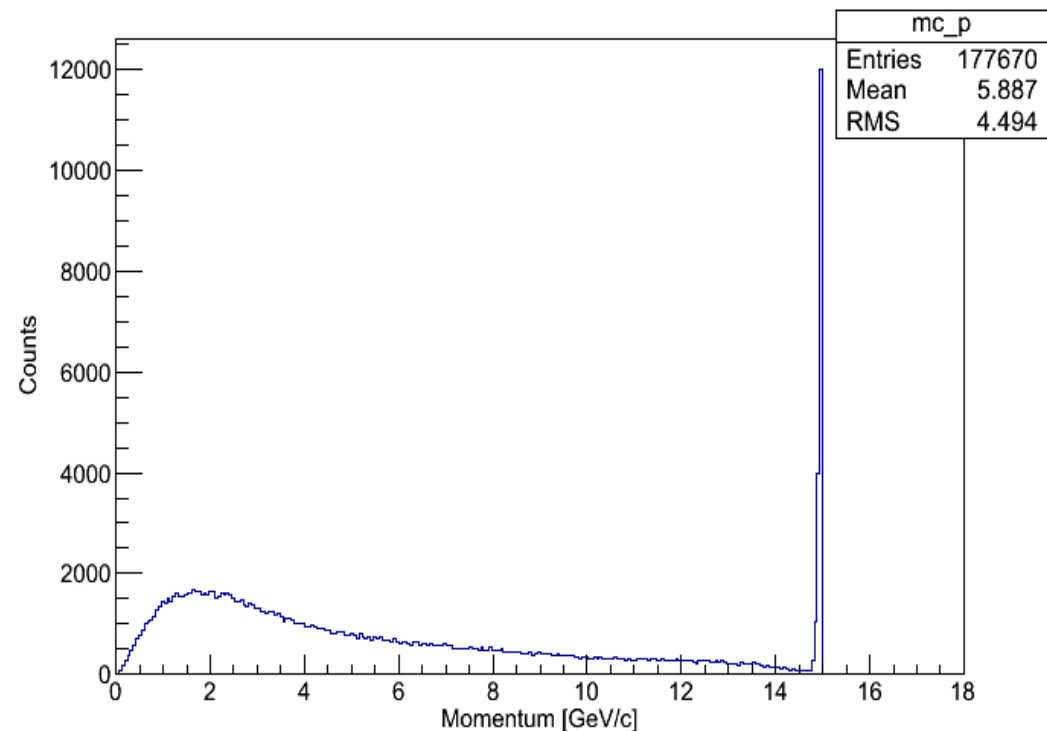
Distribution of momenta of particles

- The blue line include particle emission in in angular 10 degree and in horizontal 5 degree;

Momentum in MC

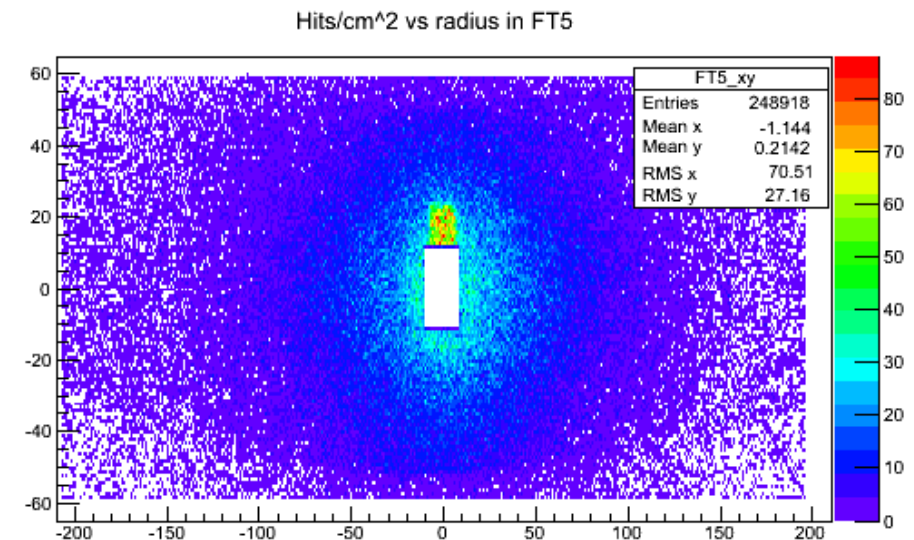
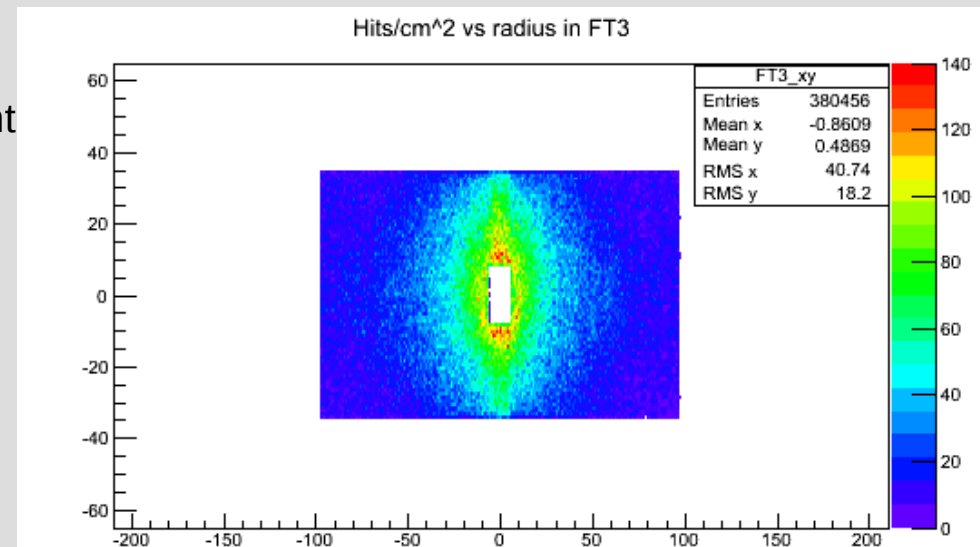
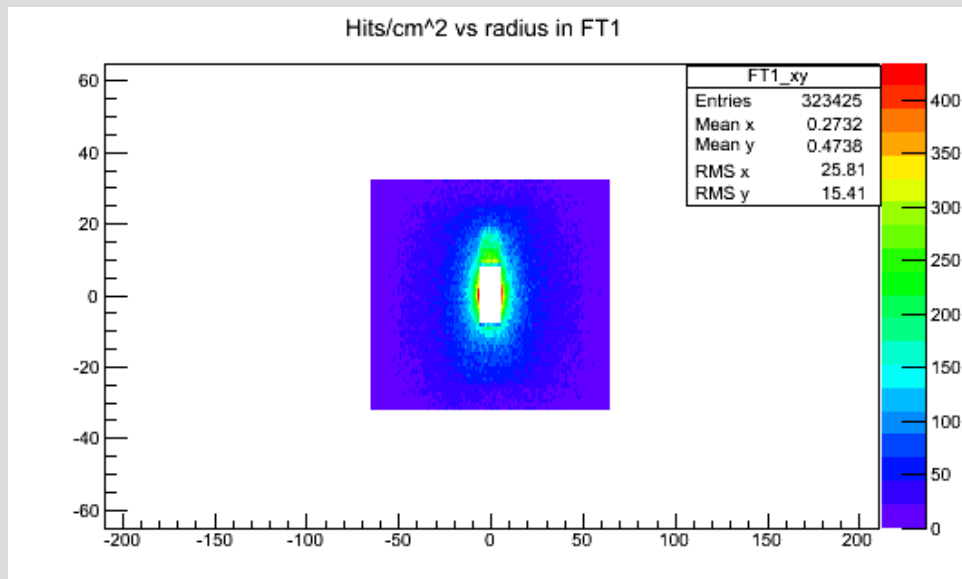


Momentum in MC

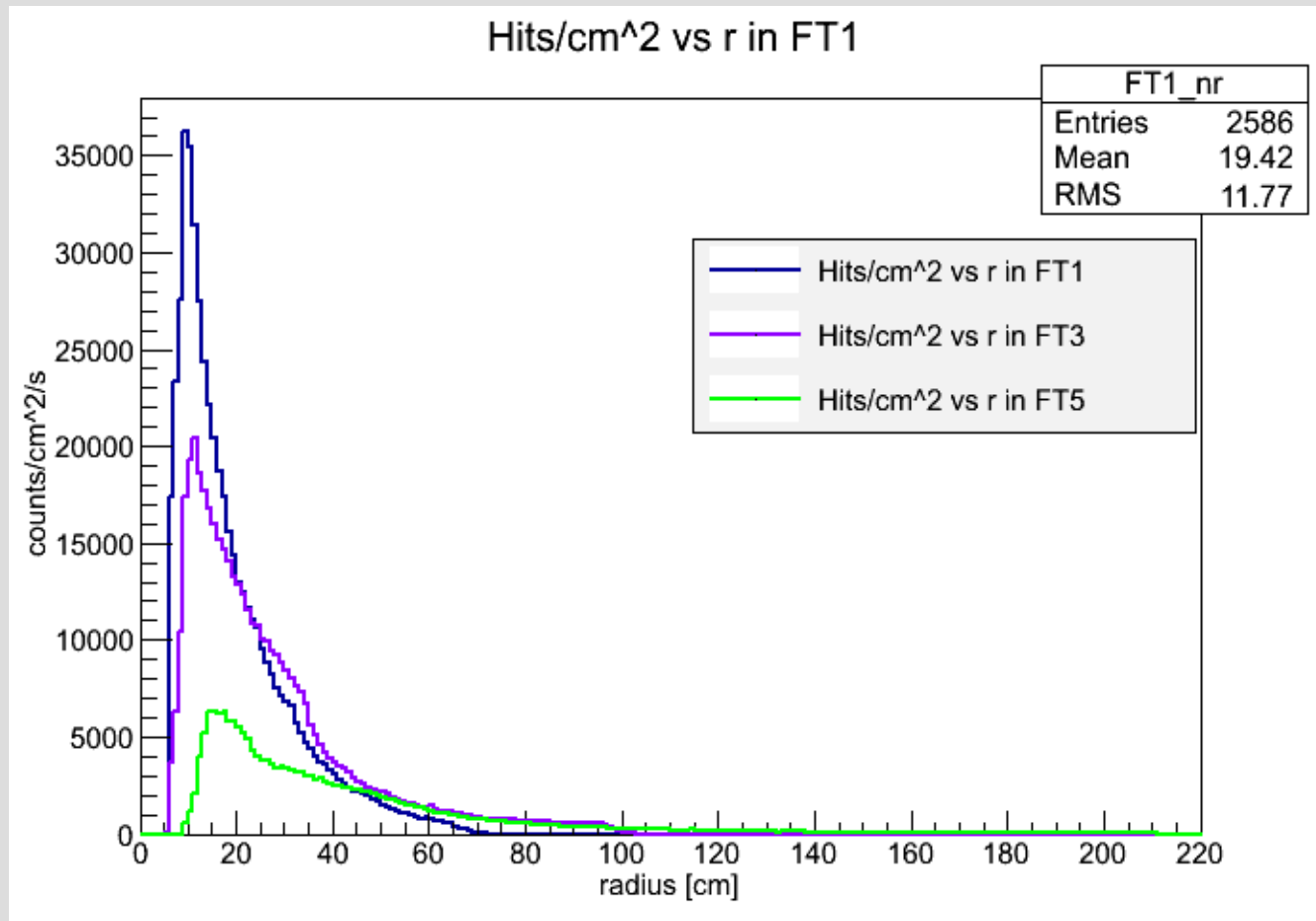


Distributions of counts/cm²/s vs radius

- Distance R is larger than pipe radius.
- 2D and 1D plots
- Symmetric at 0 in FT3 & FT5 due to pipe adjustment

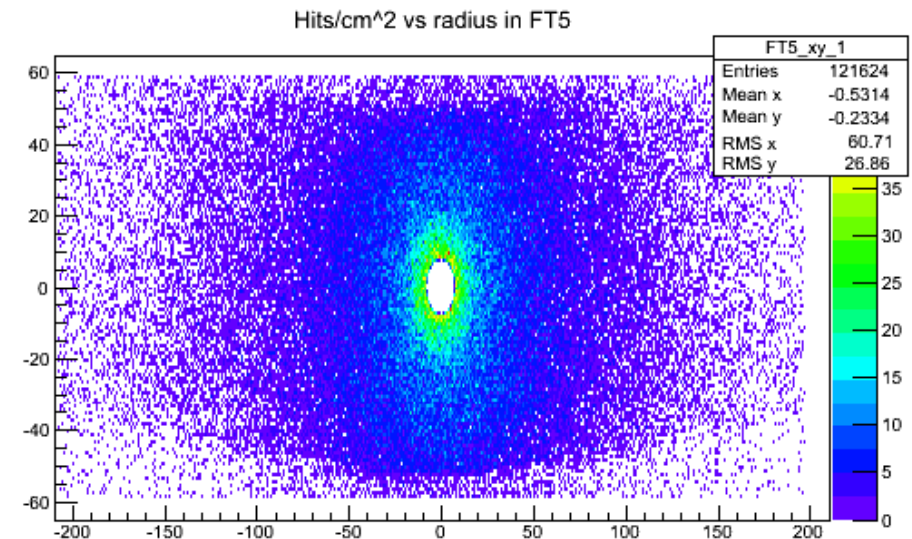
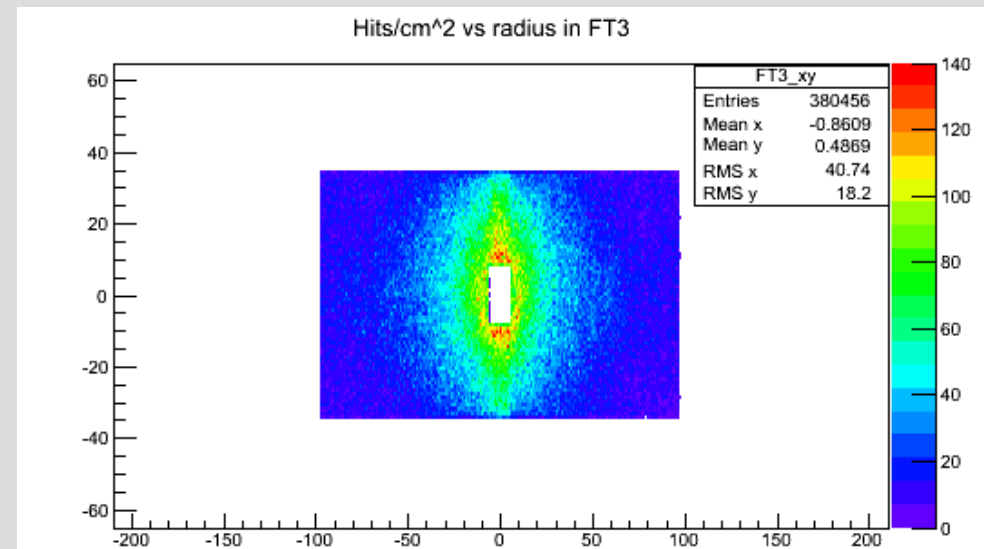
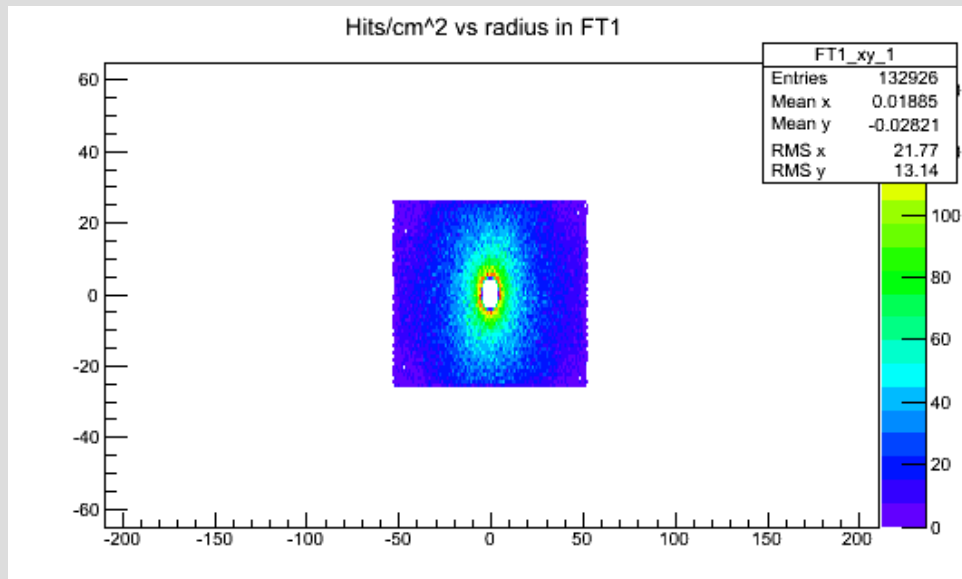


Counts/cm²/s vs radius



So called „dummy” geometry

- Counts/cm²/s vs radius in 1D & 2D fashion



„dummy” geometry

