



Lumi, Very Priliminary.

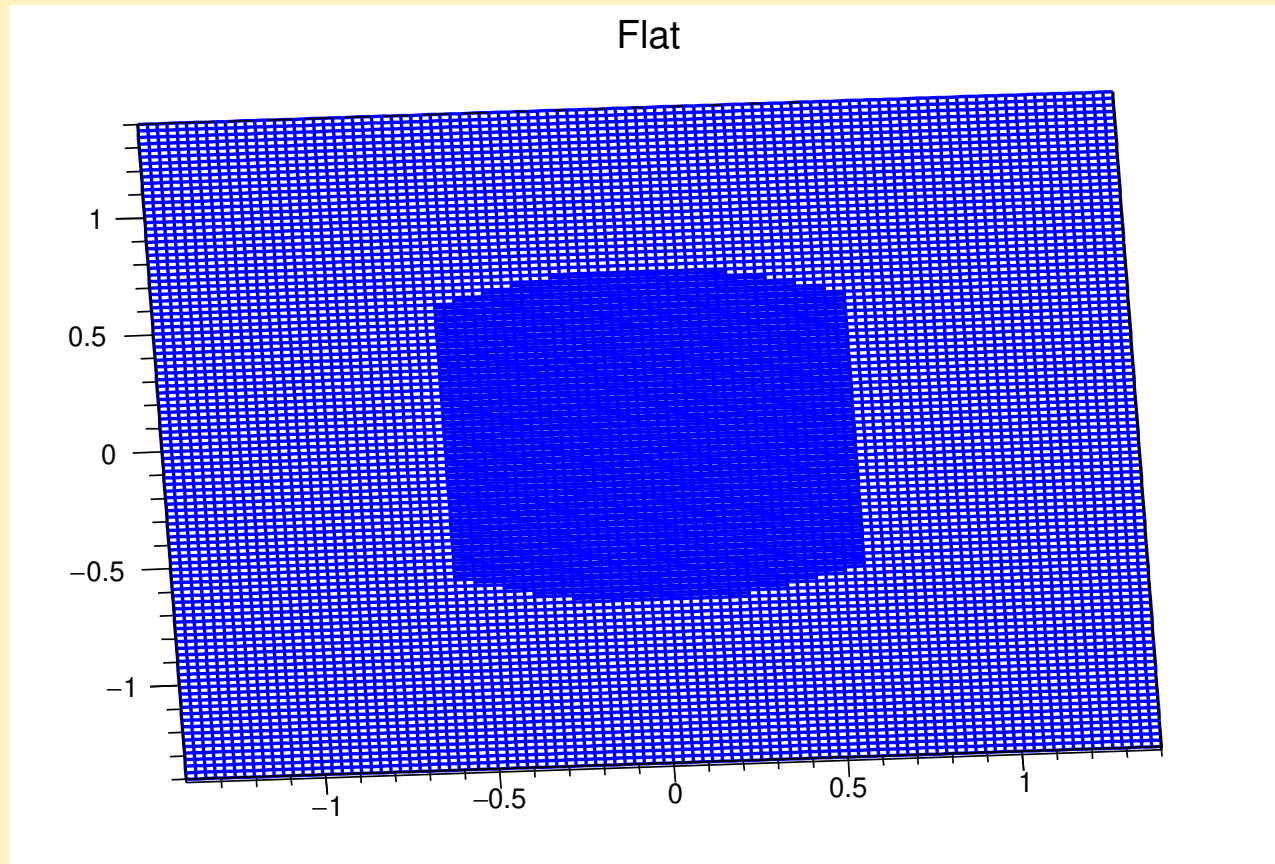
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May 24, 2021



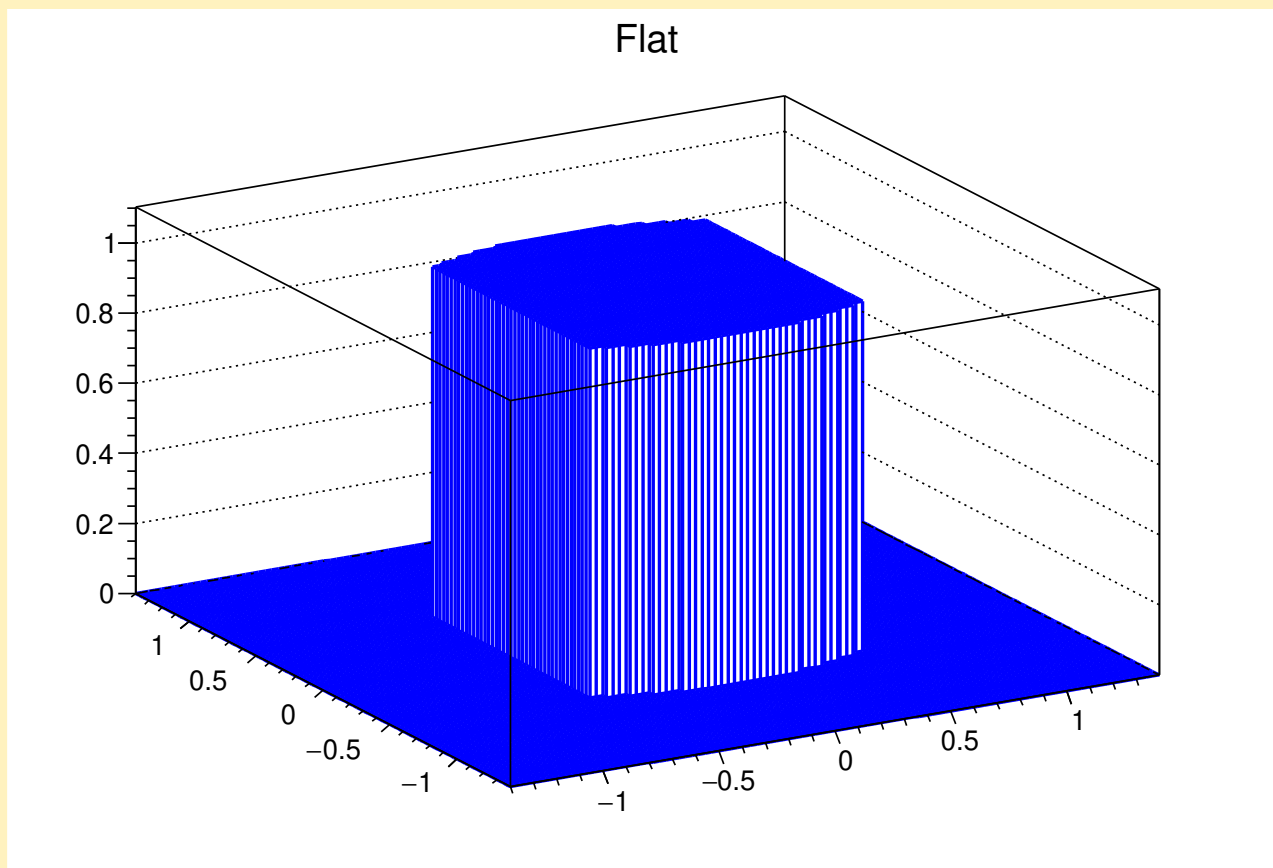
BC2 geometry (flat).



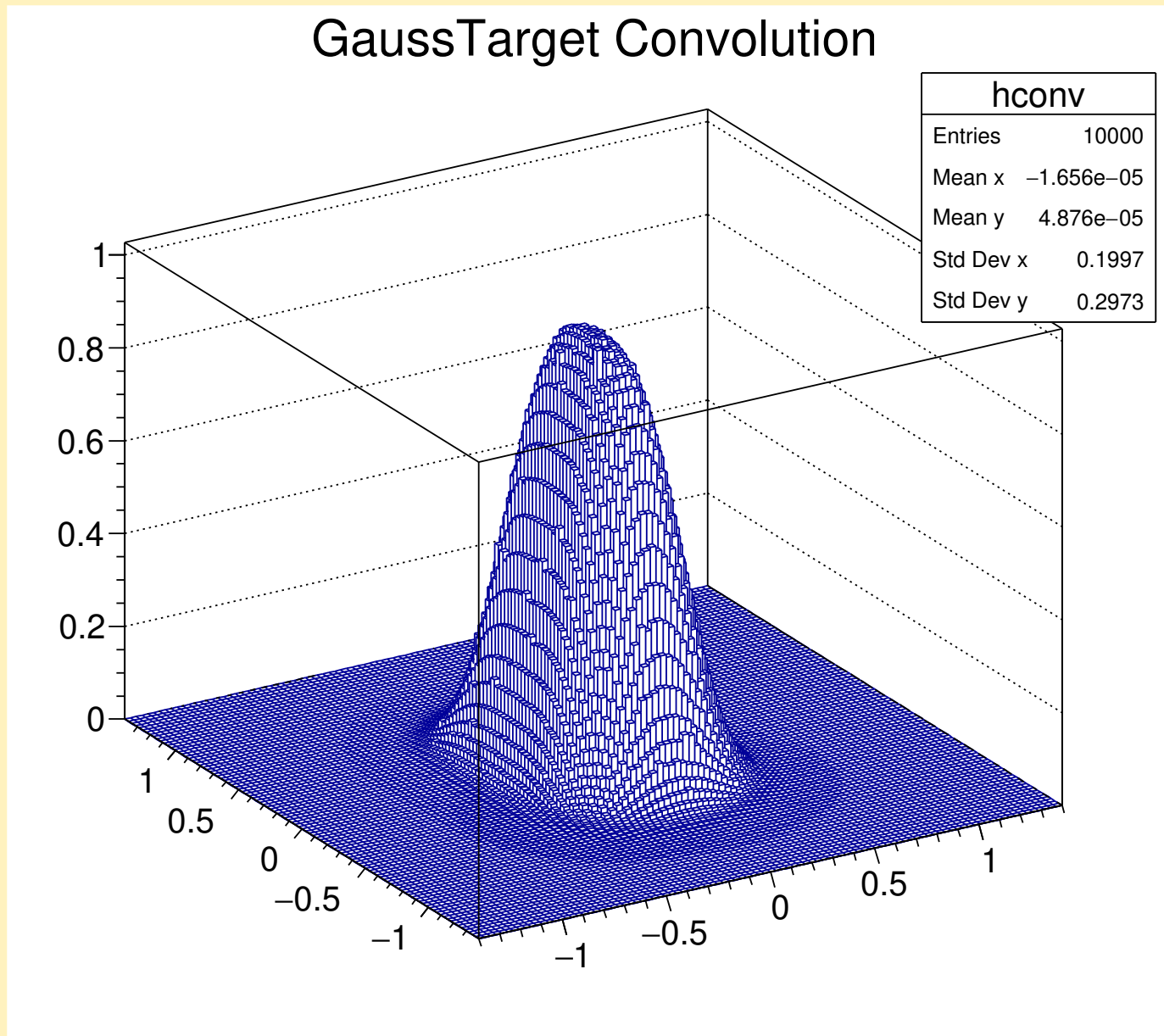
Target Geometry:

1. Disk of 20mm in diameter.
2. Tilted by $\pi/4$ in Y -projection.
3. Limited in X -projection by T_0 shadow : 12mm width.

BC2 geometry (LEGO).

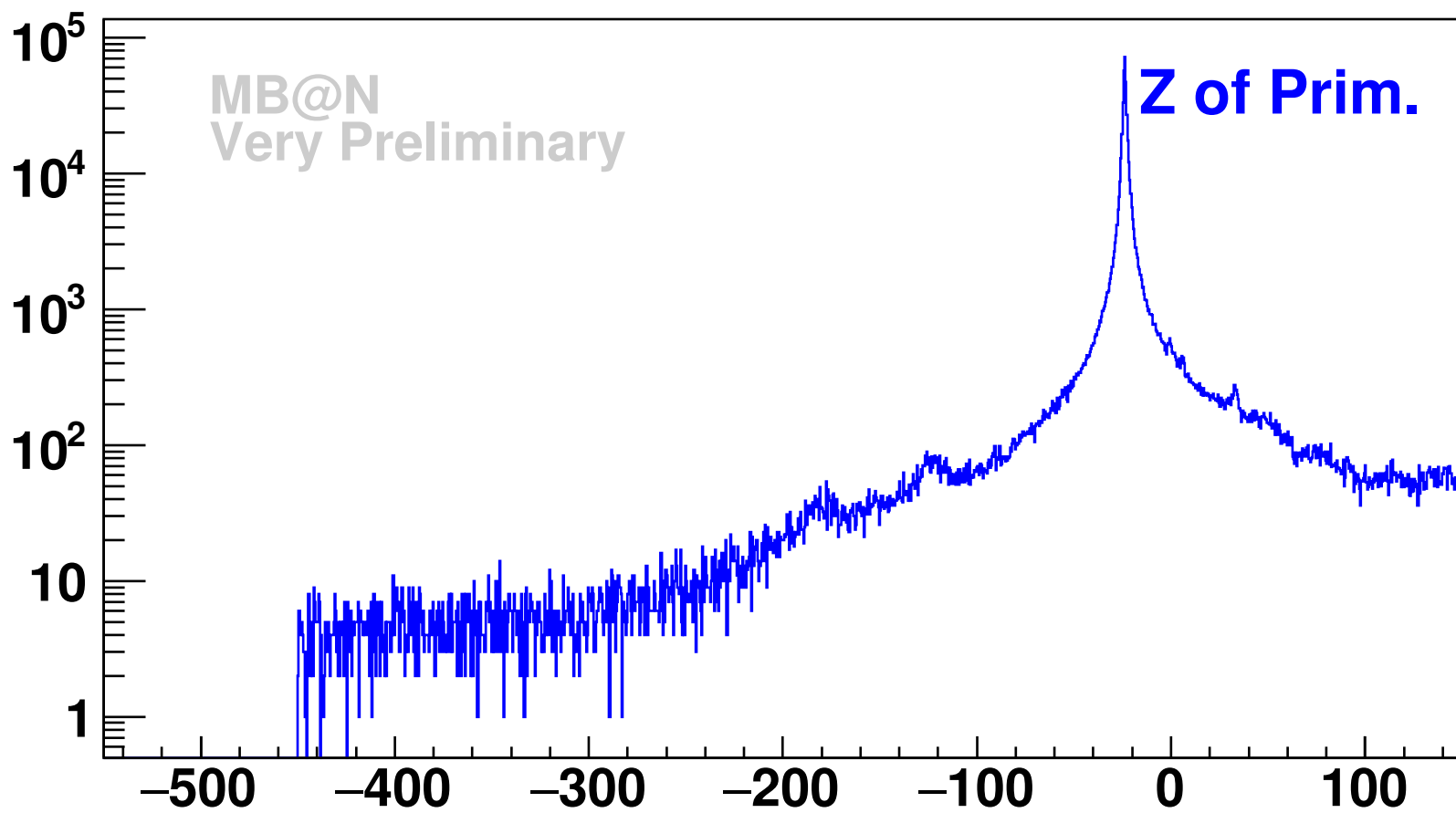


BC2 geometry (Smeared).



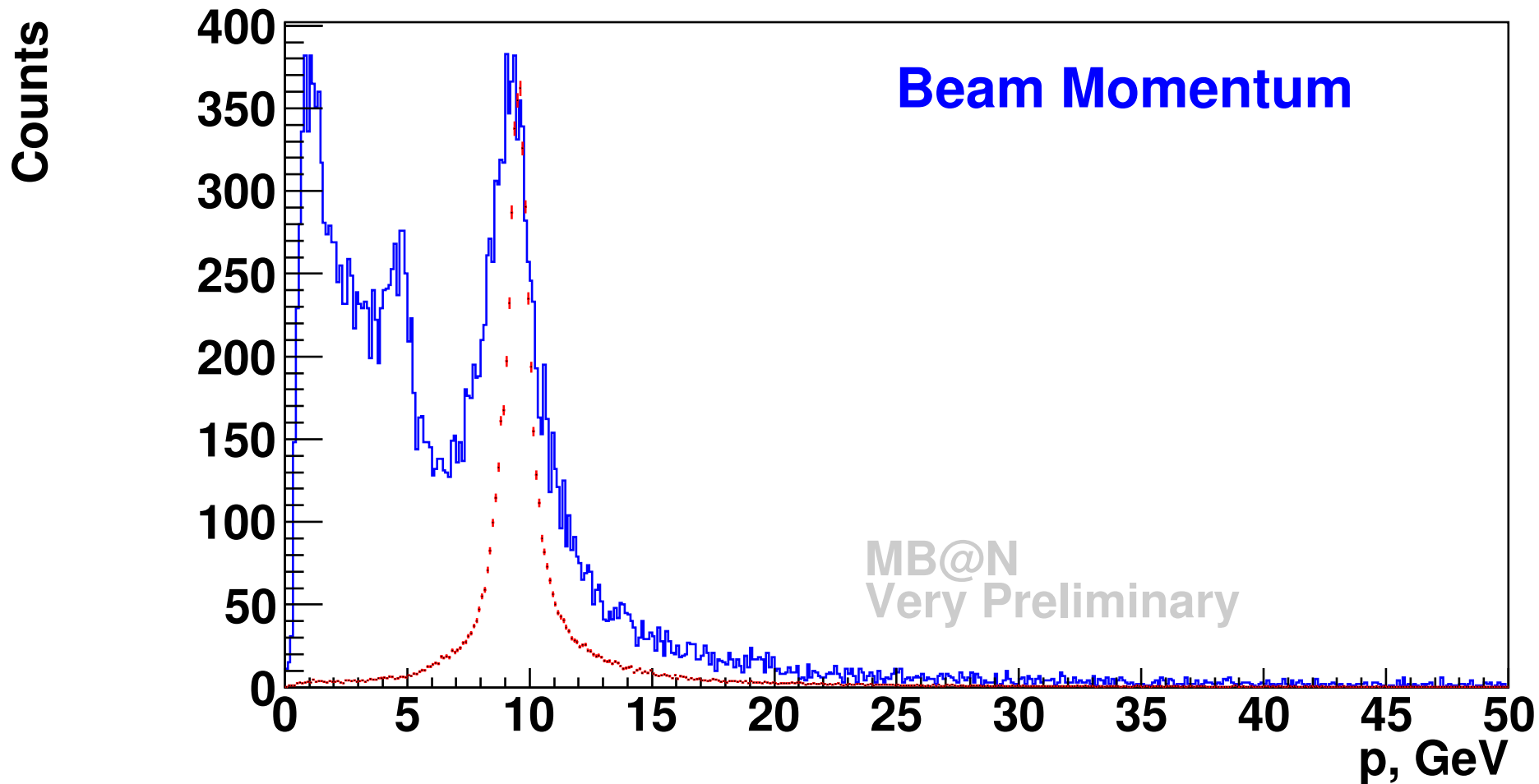
Fit function - 2-dimensional Modified Gauss convoluted with BC2 geometrical shape.

Z of Verteces, Cu, run 1477.



Maximum 4 tracks per event.

Beam Momentum, Cu, run 1477.

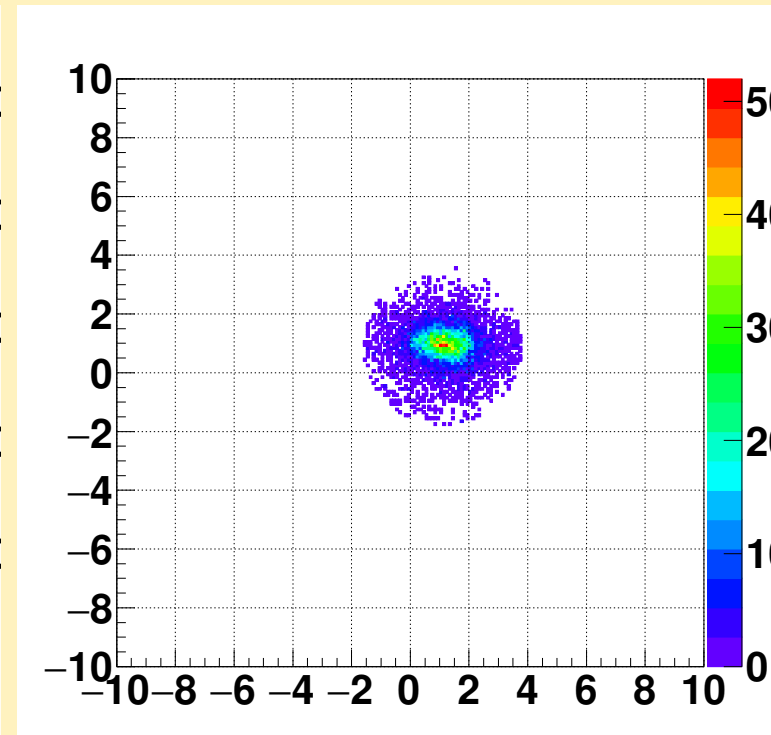
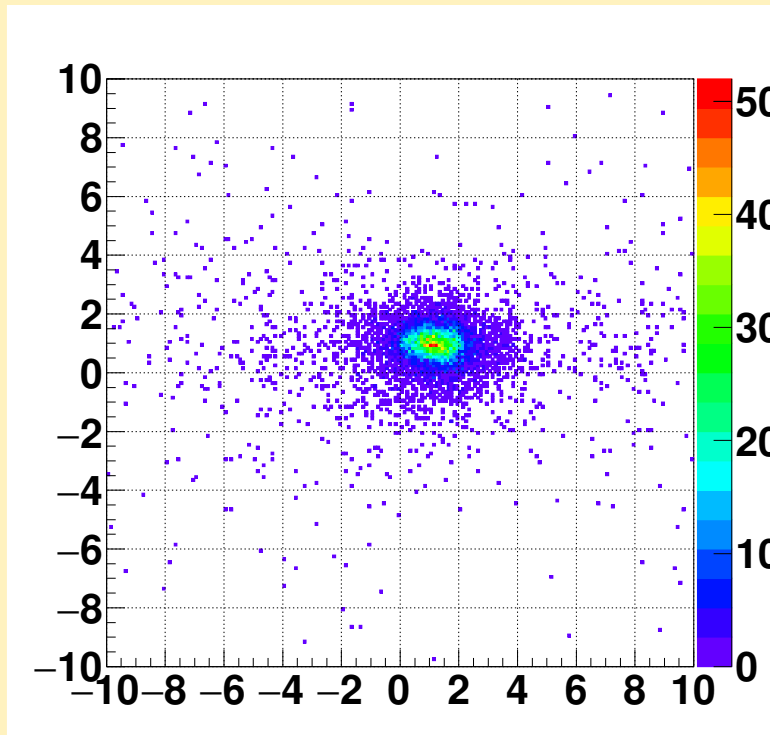


Only one positive track per event. Momentum is limited by region 7-11GeV.

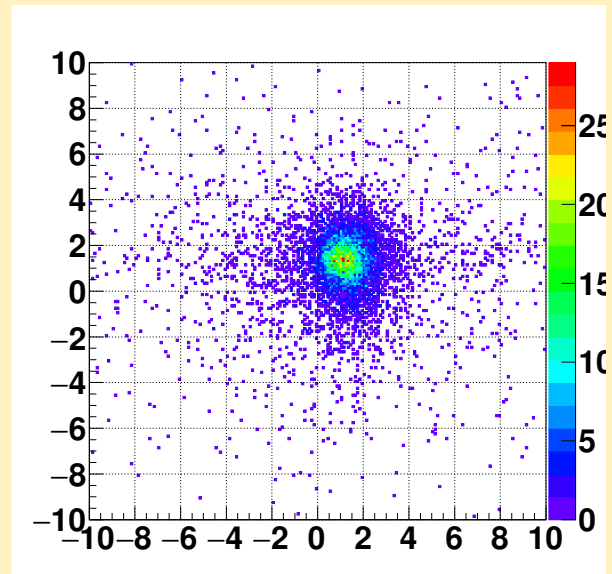
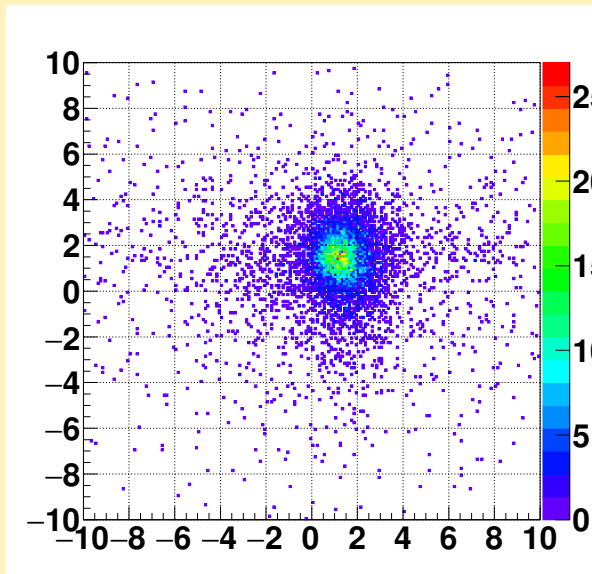
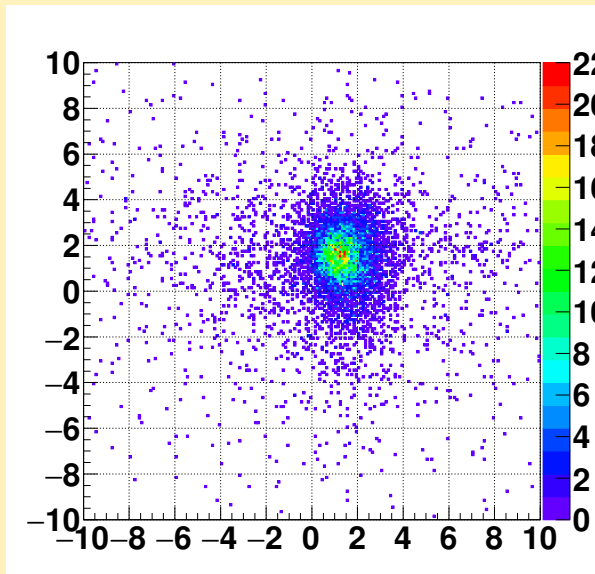
Blue - data.

Red - beam data.

Tracks on Target Cu, run 1477.



Trigger Counters Cu, run 1477.



From Left to Right:

T0 counter

BC2 counter

VC counter

Plan.

- Play with the fit function - χ^2 criteria.
- Fit BC2 in beam data.
- Fit BC2 in standard data with a single track events.
- Fit BC2 with vertices distributions.
- Extrapolate beam spot and BC2 profile on target.

