

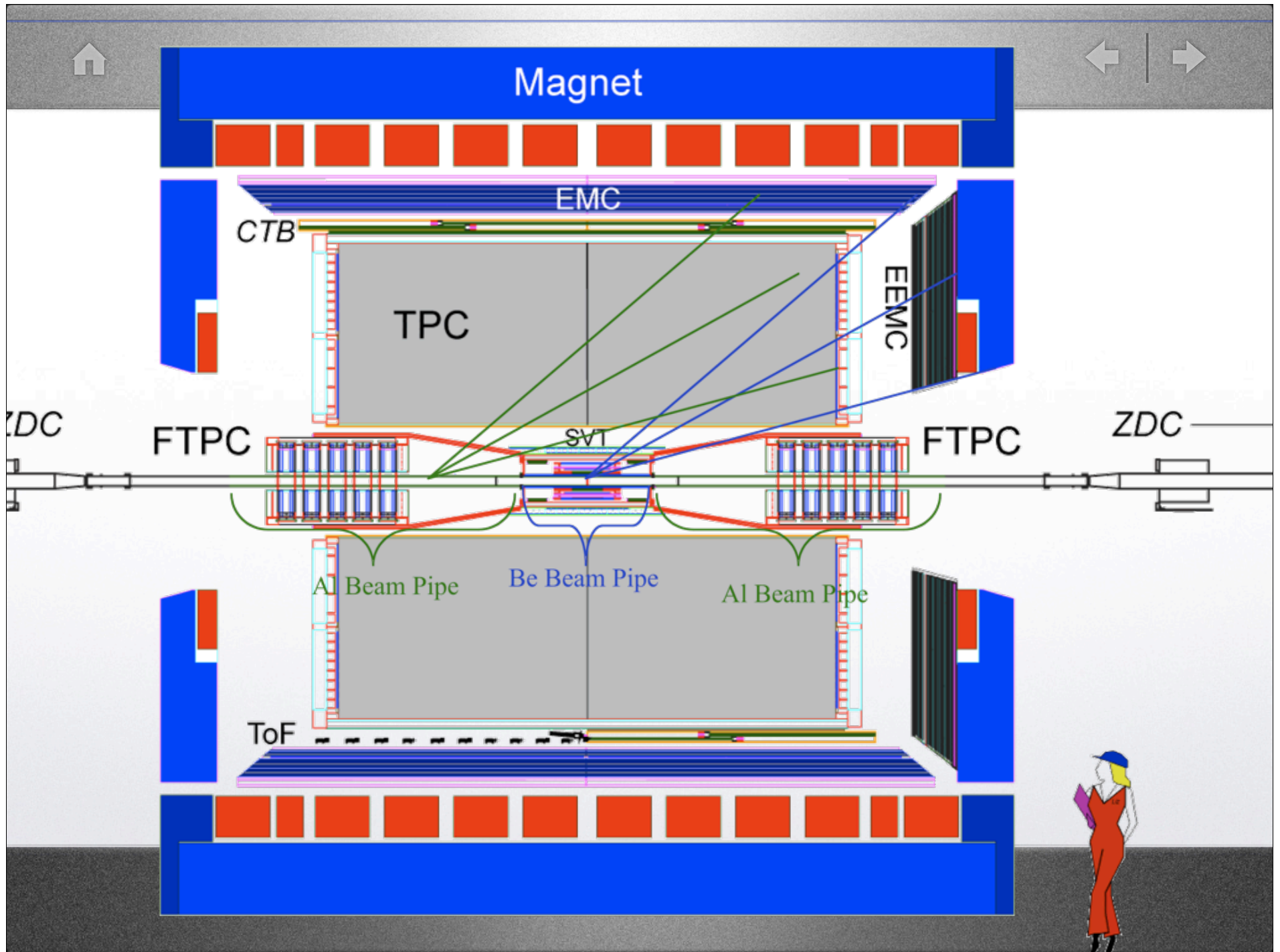


4.7 GeV Cu+Cu beam+pipe event analysis

Brooke Haag
UCD Nuclear Group meeting
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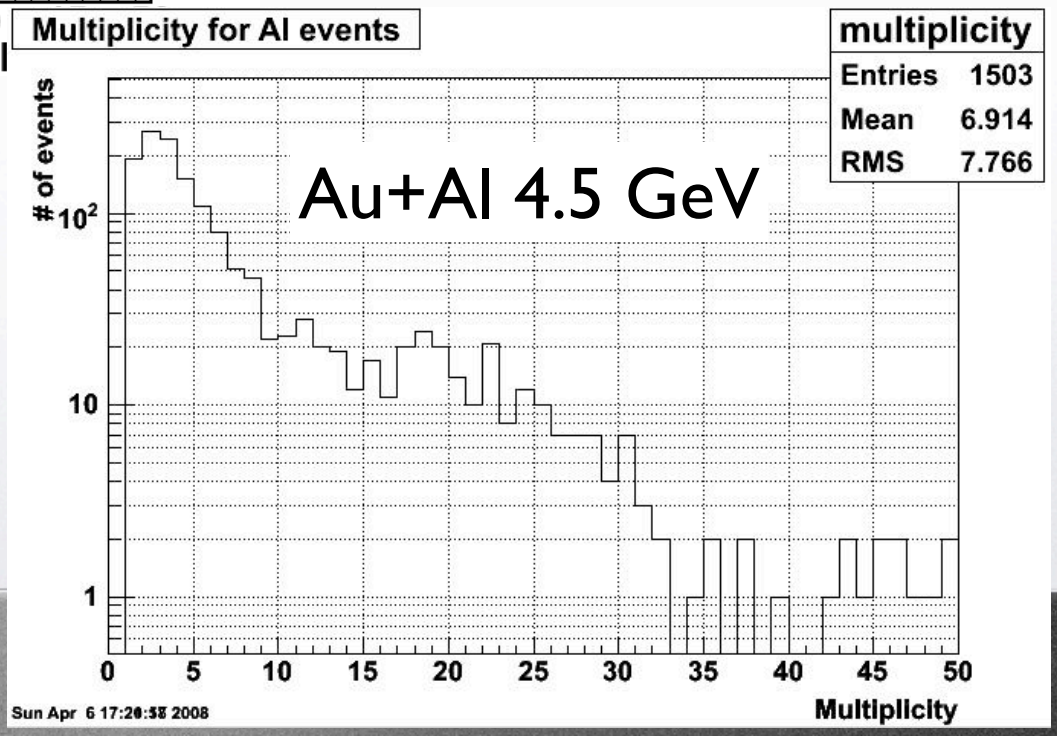
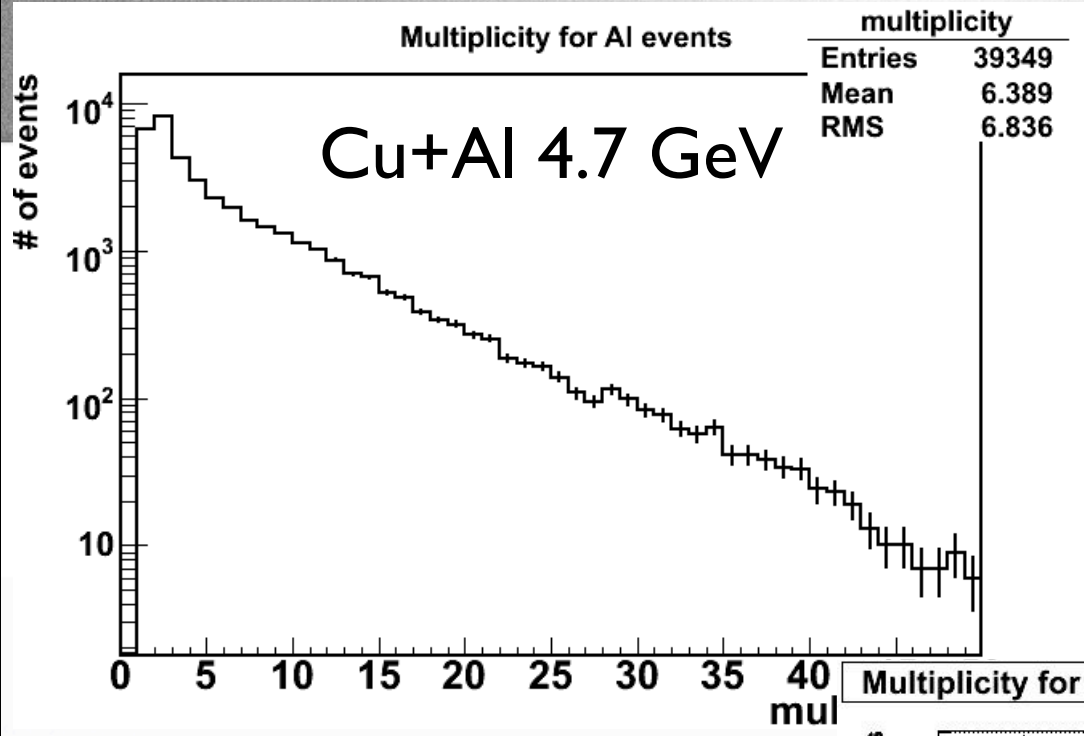
Collision Energy (GeV)	Single Beam Energy	Single Beam P_z (GeV/C)	Fixed Target \sqrt{s}	Single Beam Rapidity	Center of Mass Rapidity
22.4 Cu+Cu	11.2	11.16	4.66 Cu+Al	3.18	1.59
19.6 Au+Au	9.8	9.76	4.47 Au+Al	3.04	1.52
9.2 Au+Au	4.6	4.50	3.21 Au+Al	2.28	1.14





Beam+Pipe Au+Cu Event Cuts:

- $|zVertex| > 75$ cm
- $rVertex > 2$ cm
- $refMult > 11$
- $p_z * z < 0$

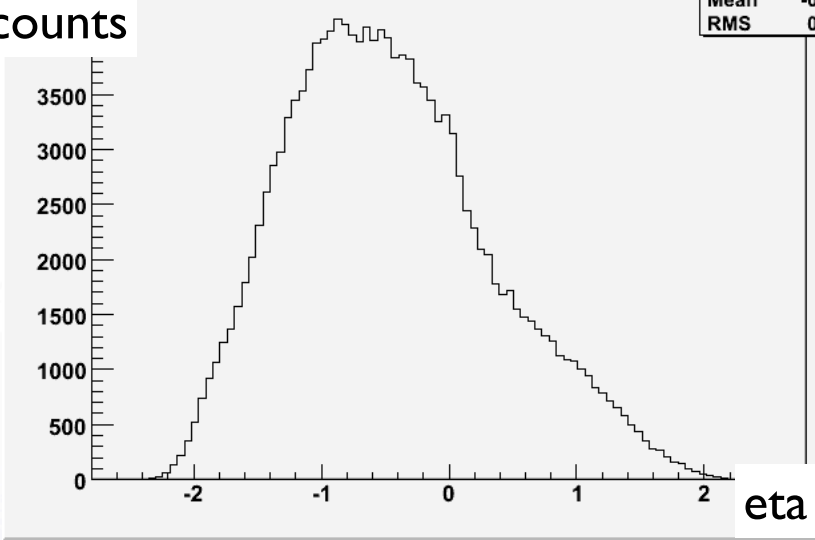




eta {Vr>2}

EtaHisto	
Entries	149922
Mean	-0.4592
RMS	0.8048

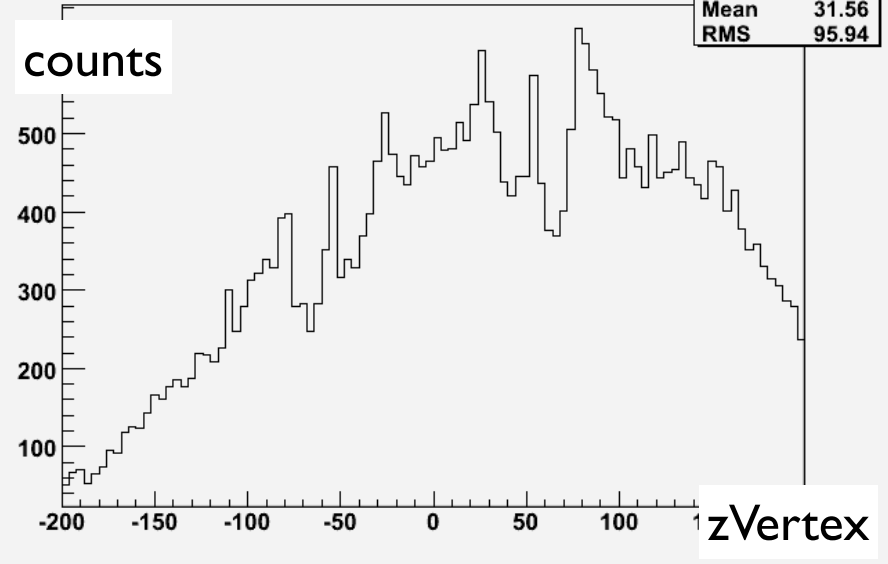
counts



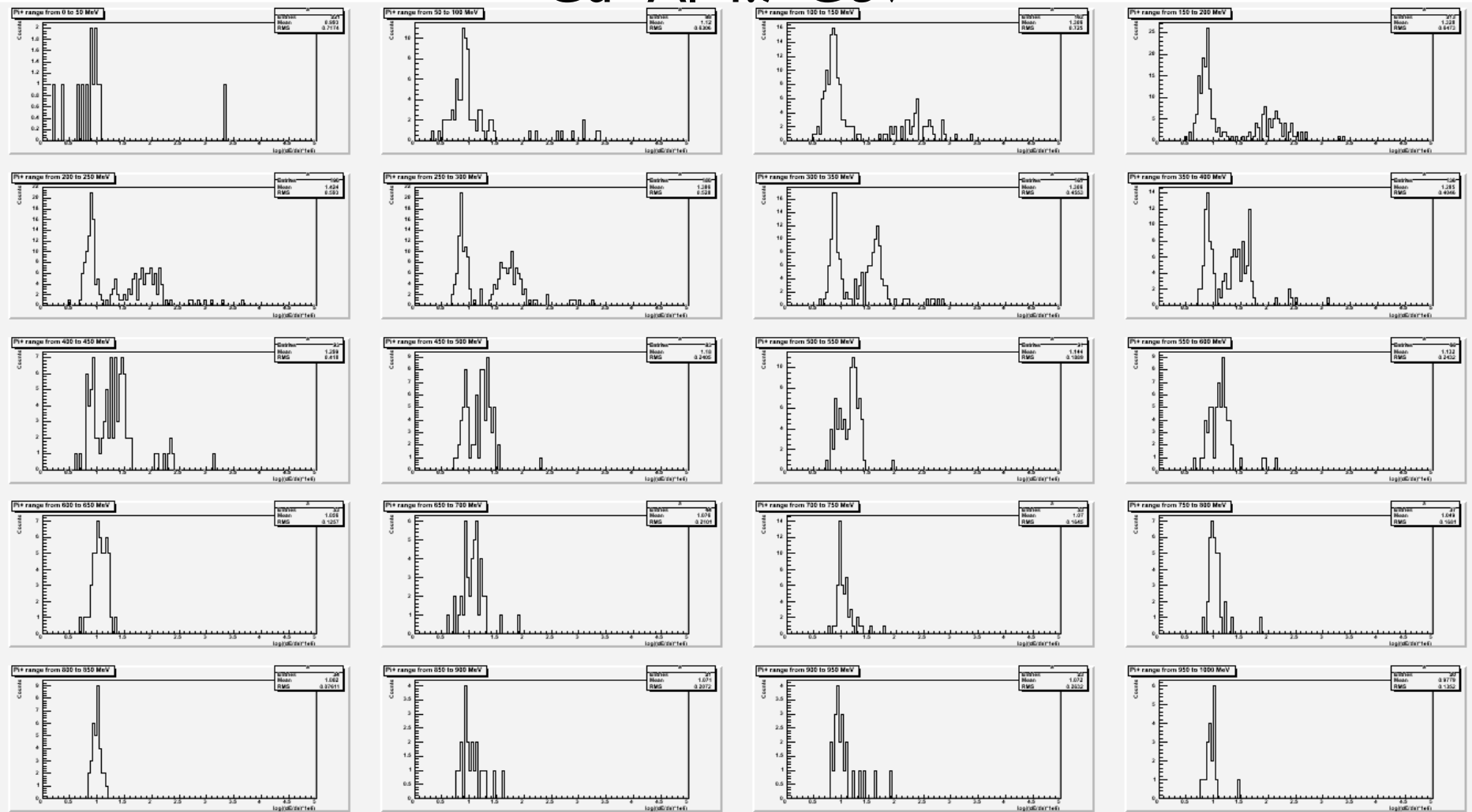
z position of primary vertex r>2cm

vertzgt	
Entries	37842
Mean	31.56
RMS	95.94

counts

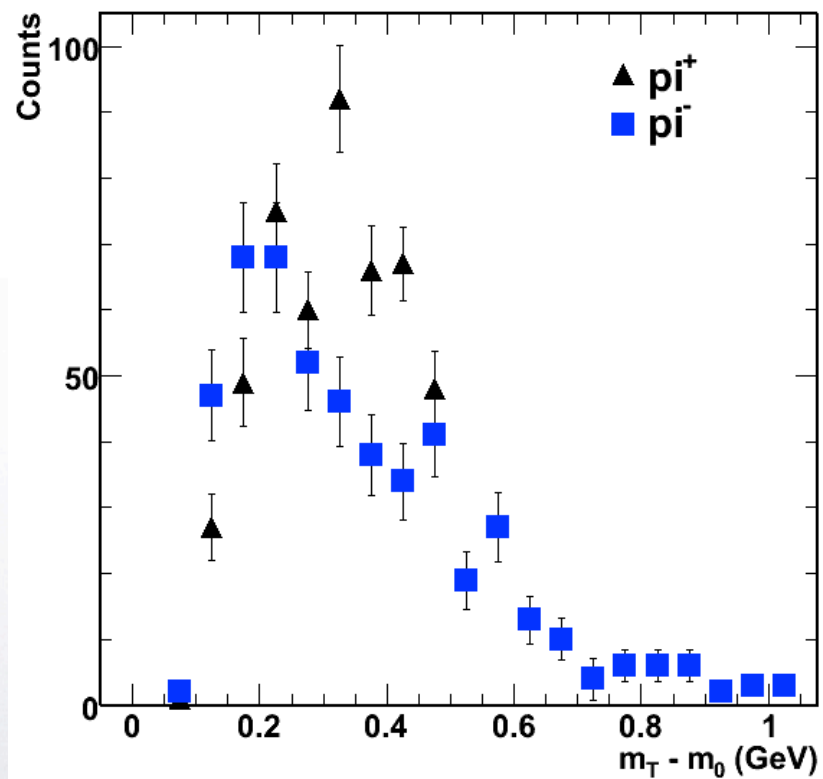


π^+ spectra Cu+Al 4.7 GeV

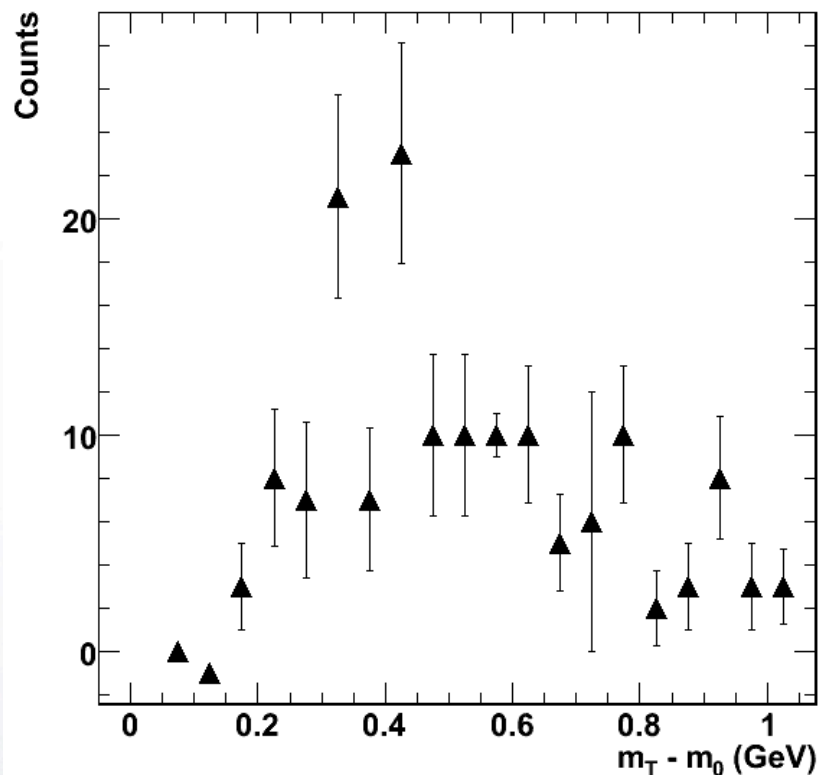




Raw Pion Yields



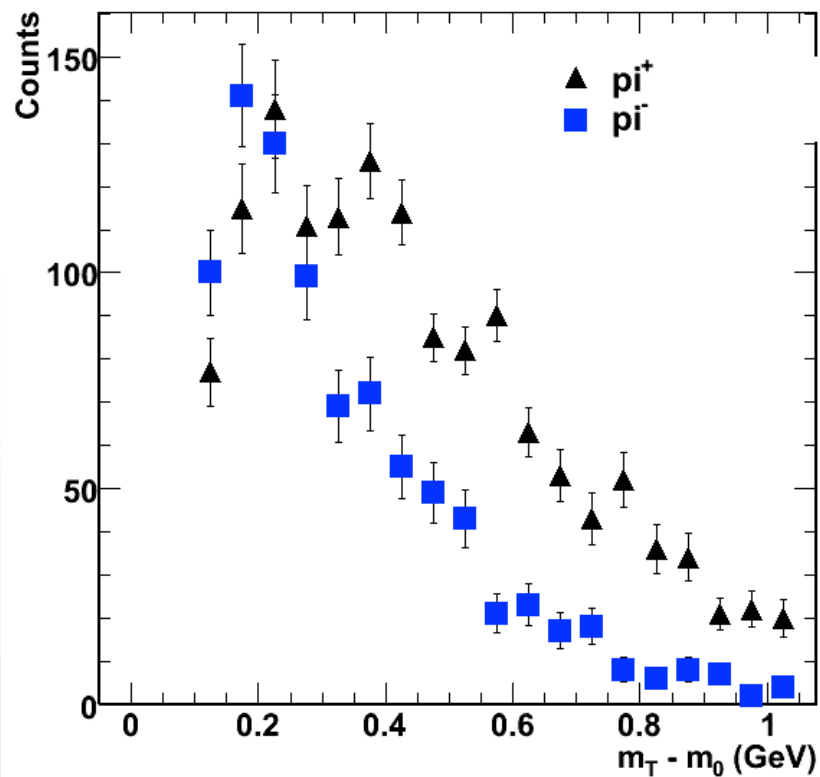
Raw Proton Yields



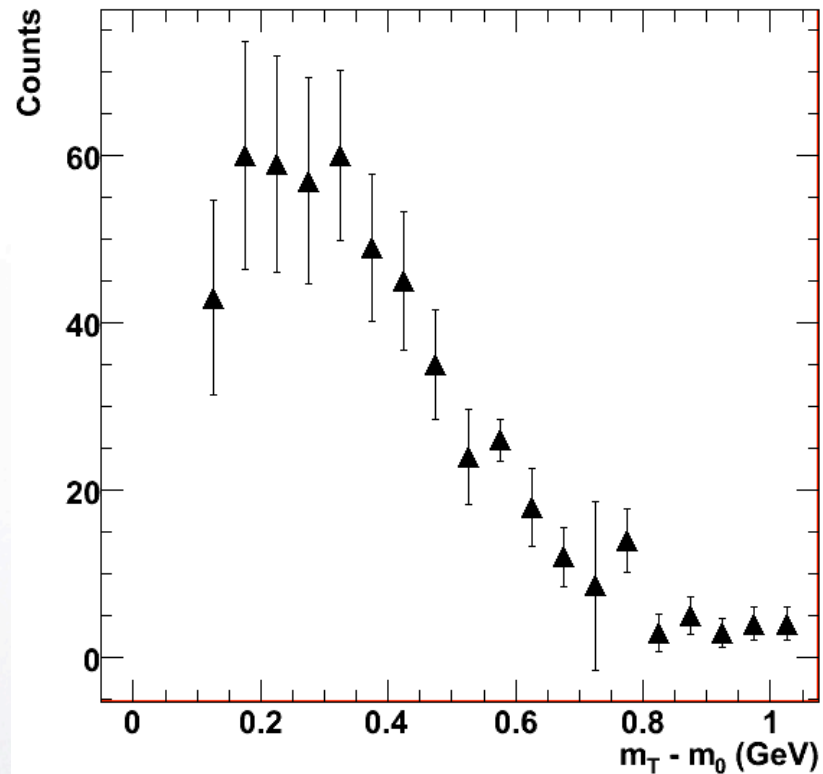
assuming $y_{\text{cm}} = 1.59$



Raw Pion Yields



Raw Proton Yields

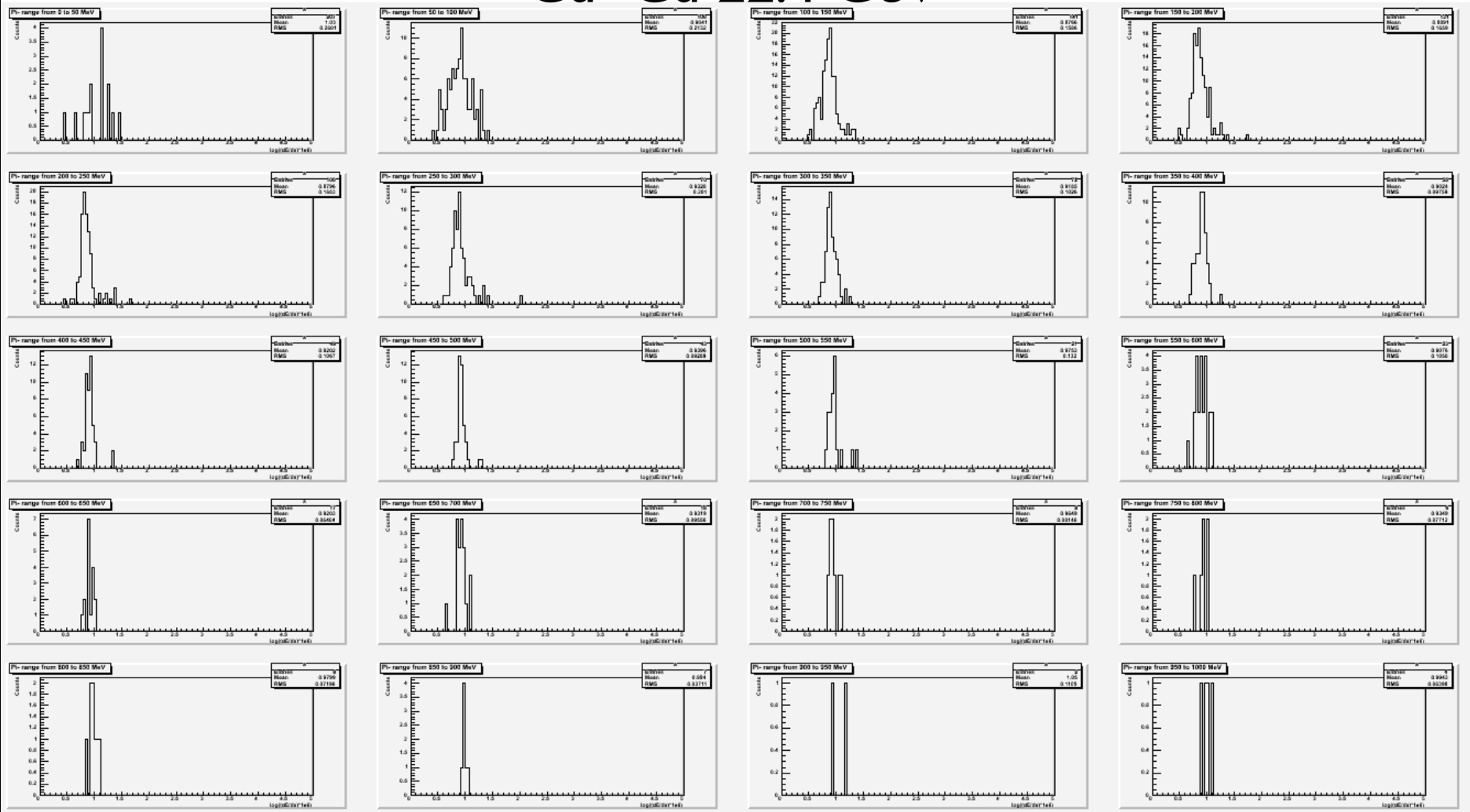


assuming $y_{\text{cm}} = 1.13$

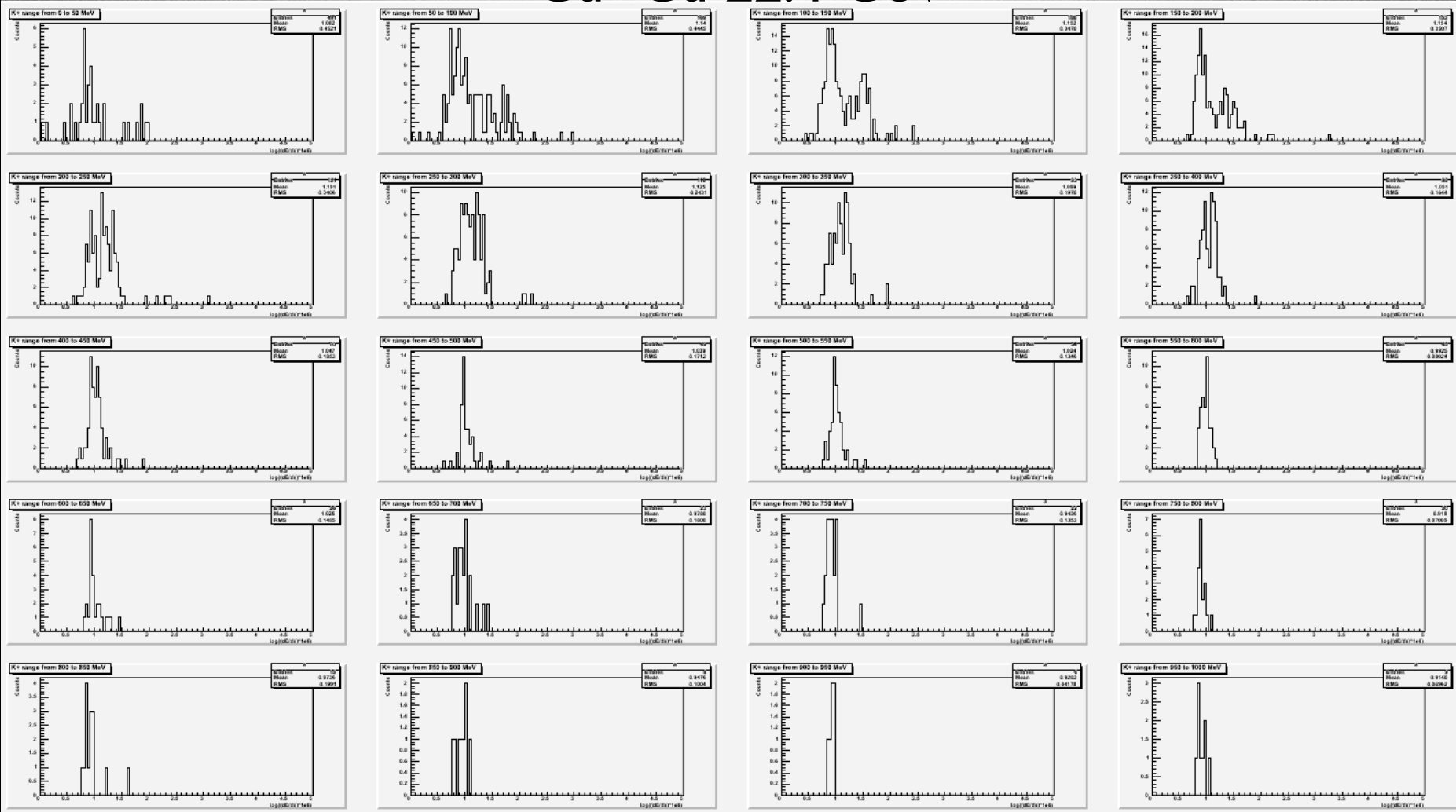


Backup

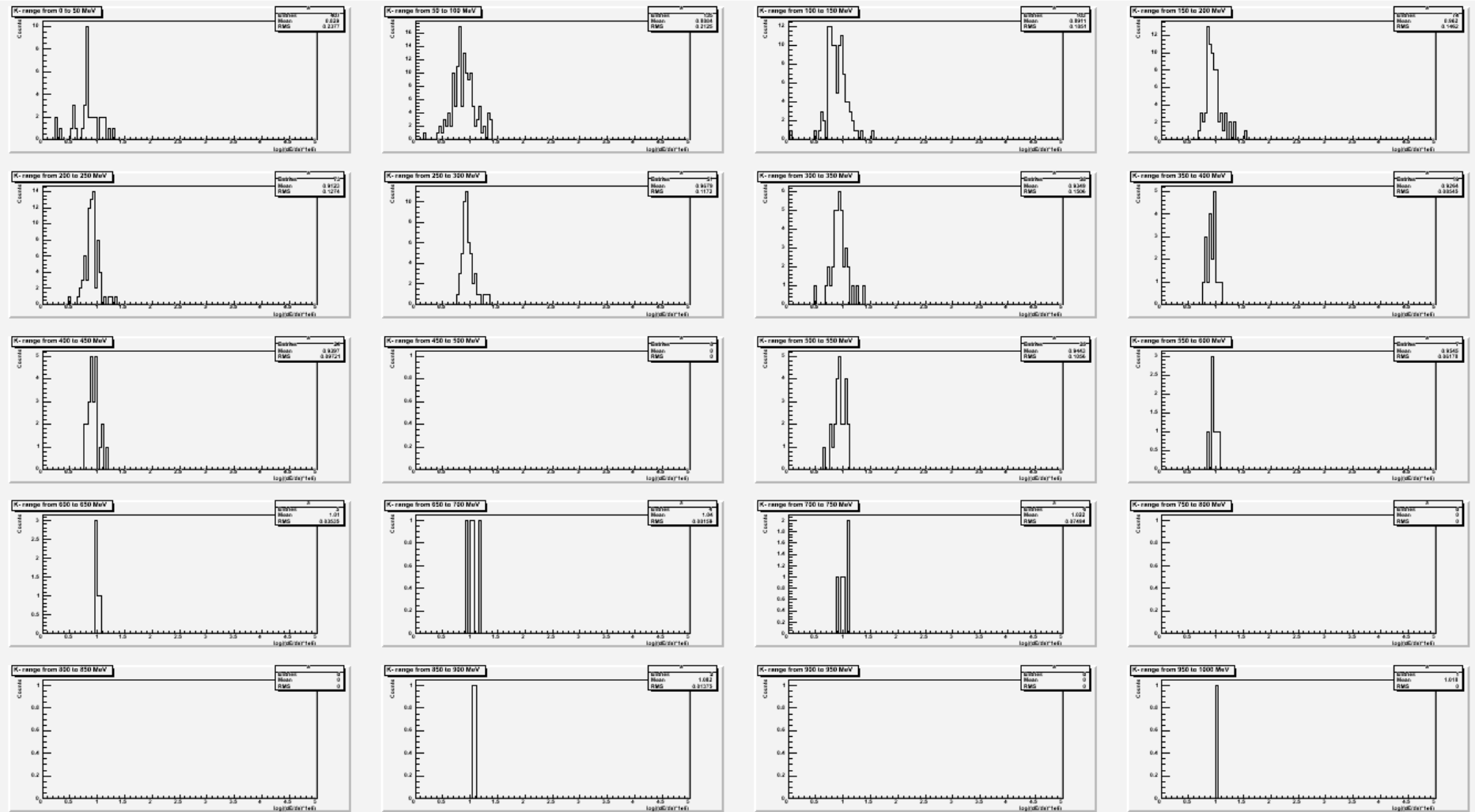
π^- spectra Cu+Cu 22.4 GeV



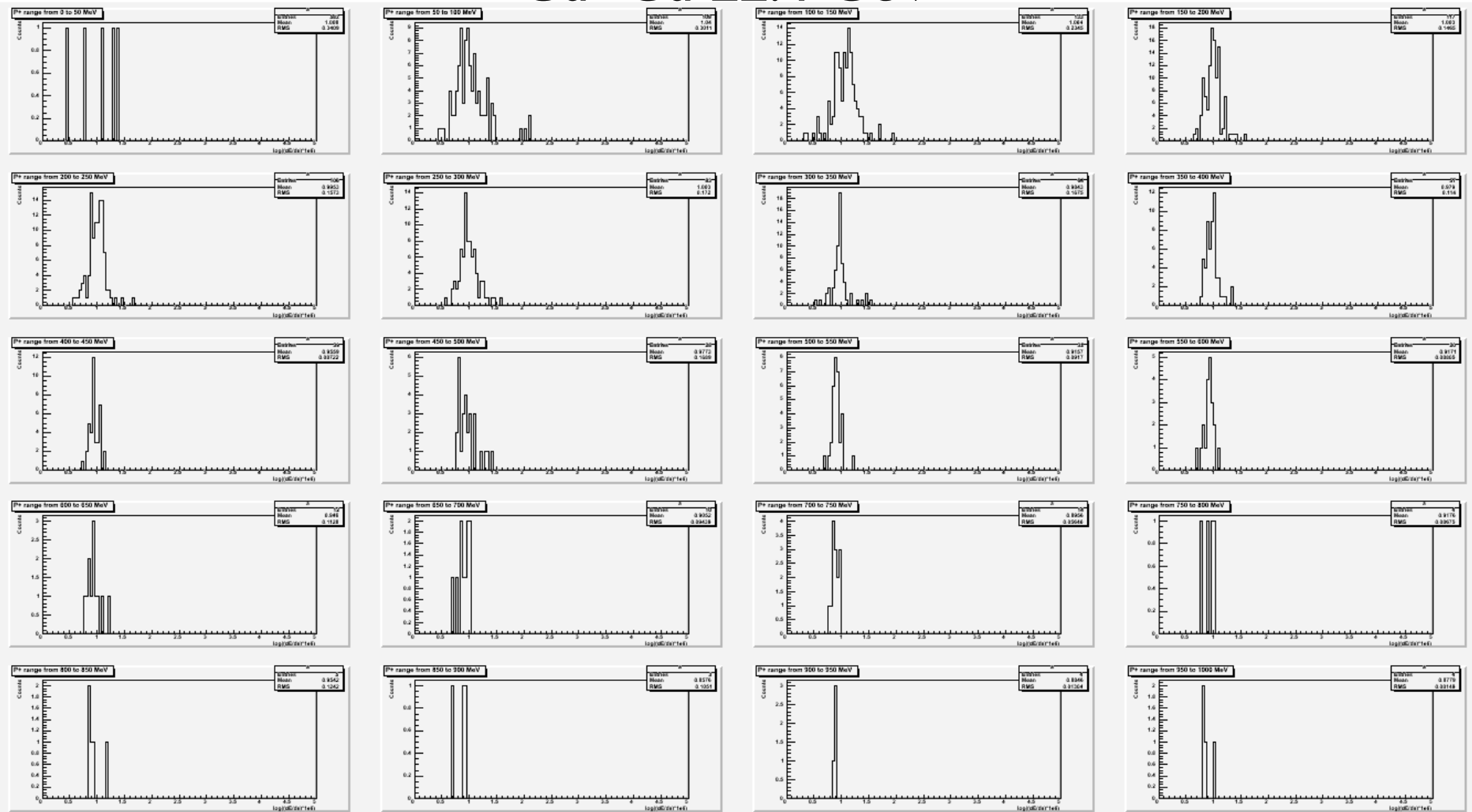
k^+ spectra Cu+Cu 22.4 GeV



k^- spectra Cu+Cu 22.4 GeV



proton spectra Cu+Cu 22.4 GeV



anti-proton spectra Cu+Cu 22.4 GeV

