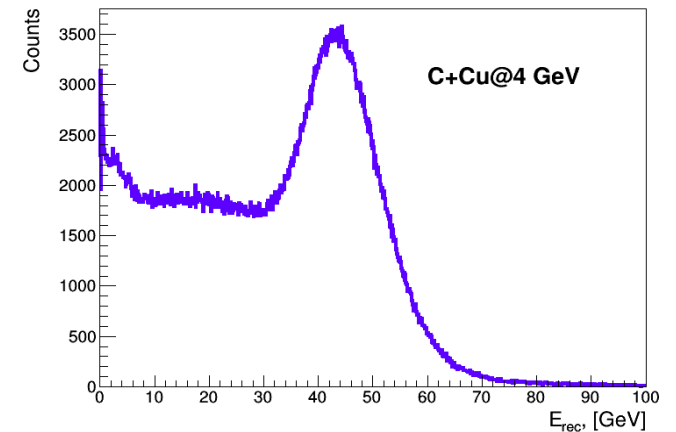
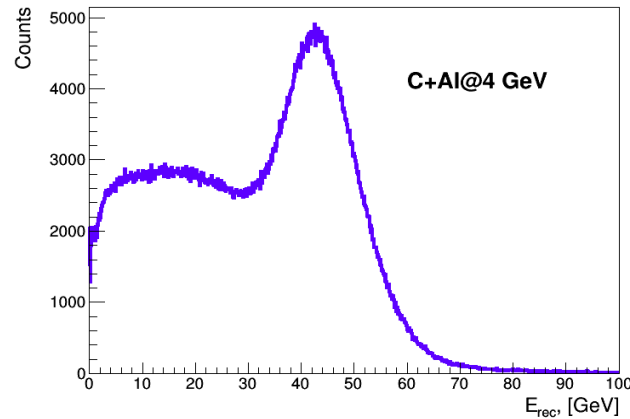
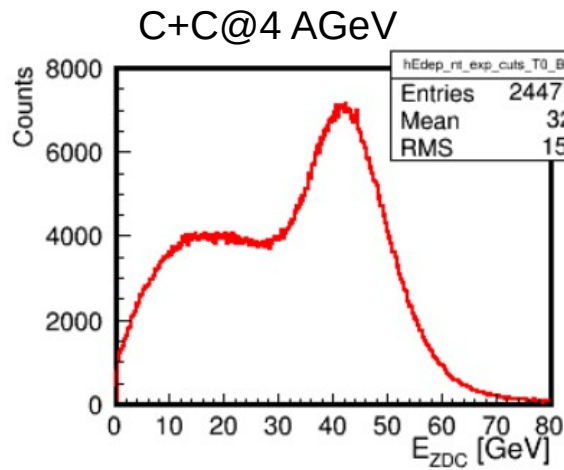


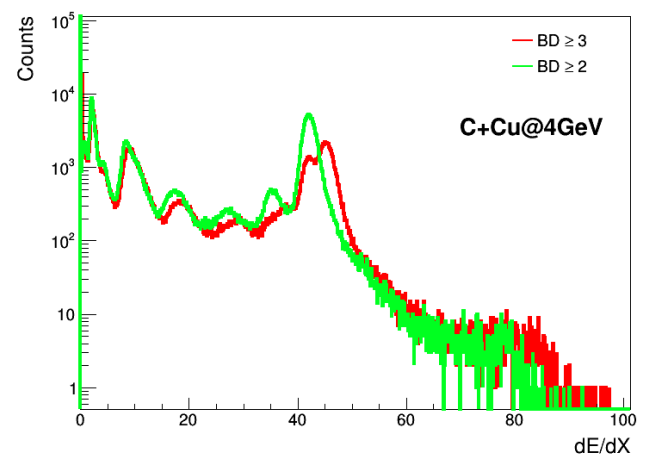
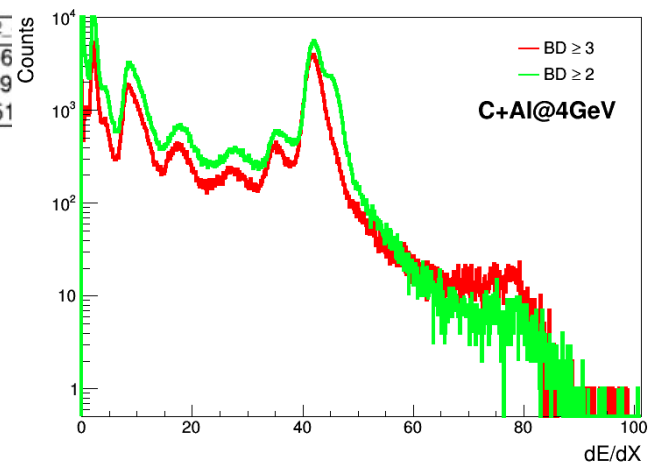
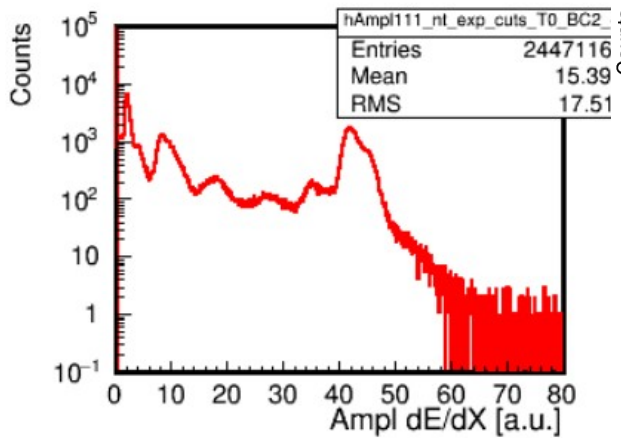
C+C@4AGeV  
CAI@4GeV  
CCu@4GeV

Applied cuts for experimental data:

Multiplicity in VETO = 0  
Multiplicity in BC2, T0 = 1  
Amplitude BC2 from 16.5 to 20  
Time BC2 from 260 to 360  
Amplitude T0 from 17 to 20  
Time T0 from 26 to 360

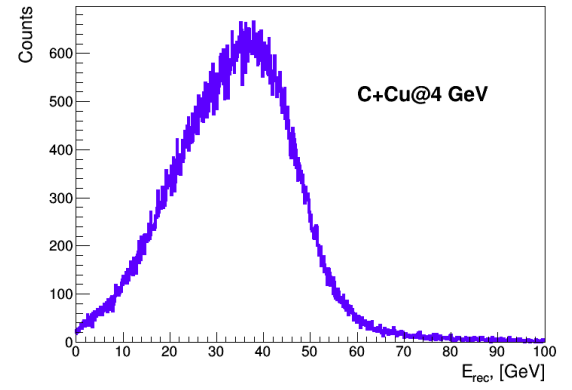
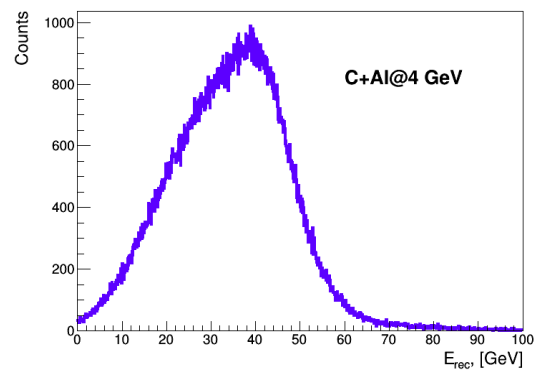
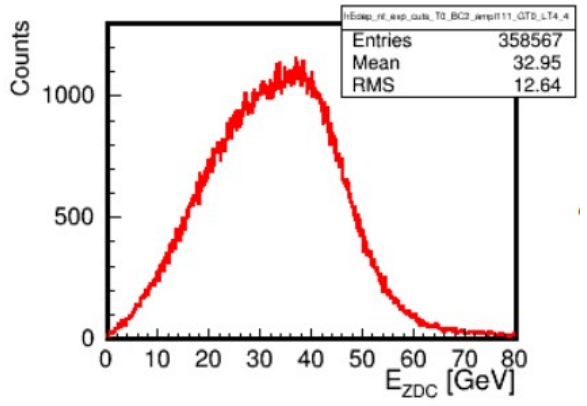


C+C@4 AGeV



0 < dE/dx < 40

C+C@4 AGeV



MC:

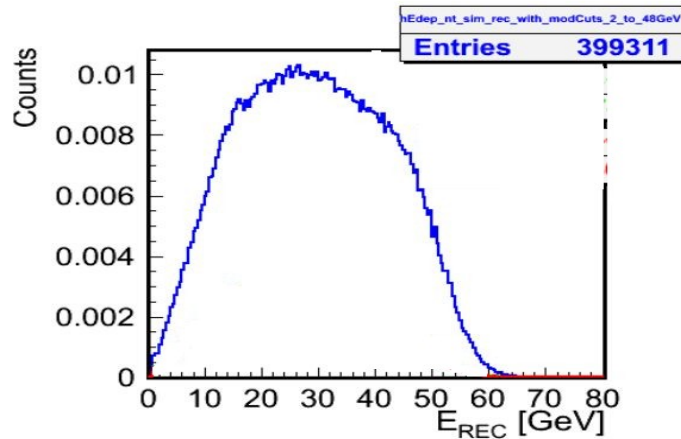
bmroot, full BMN geometry,

ZDC at  $x = 475\text{mm}$ ,  $y = -32.5\text{mm}$ ,  $z = 900\text{mm}$  from target

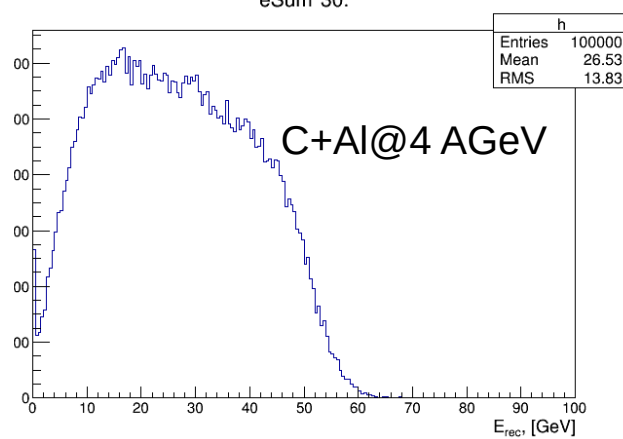
10mm Gauss width beam spot

DQGSM files (/eos/eosnica.jinr.ru/nica/bmn/sim/gen/DQGSM/)

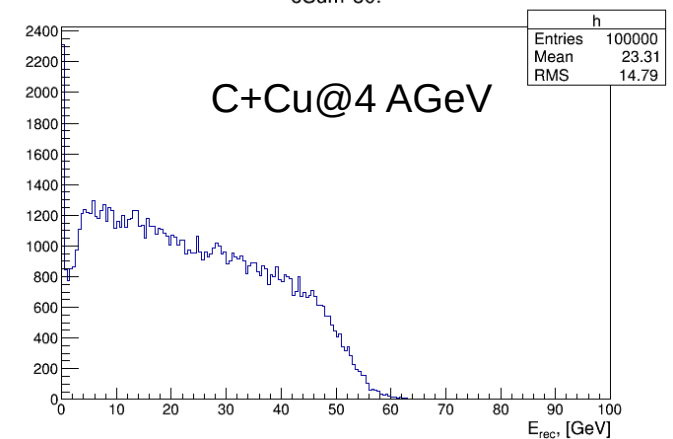
C+C@4 AGeV



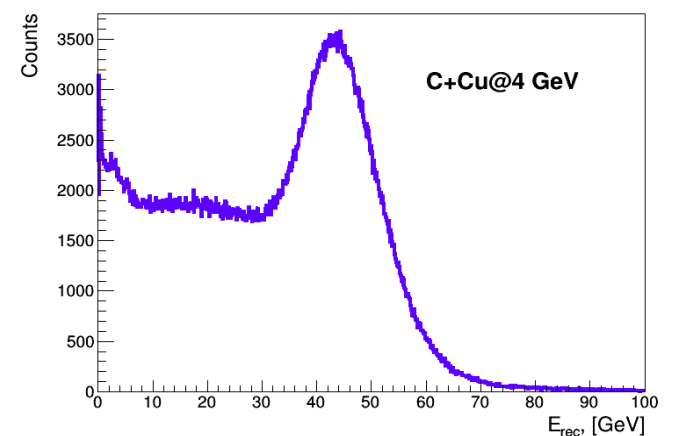
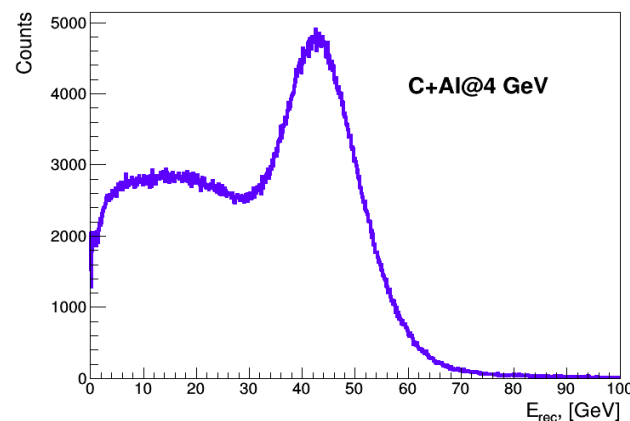
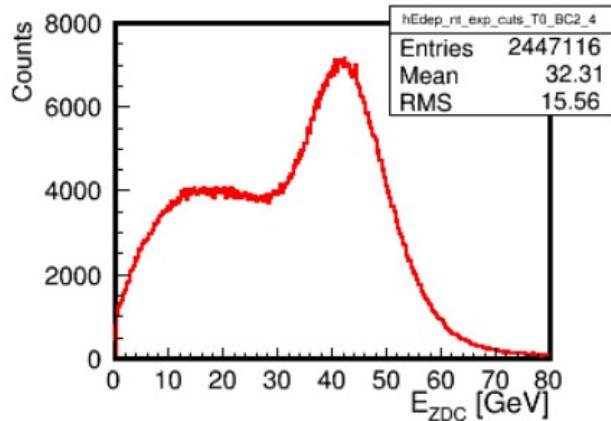
eSum\*30.

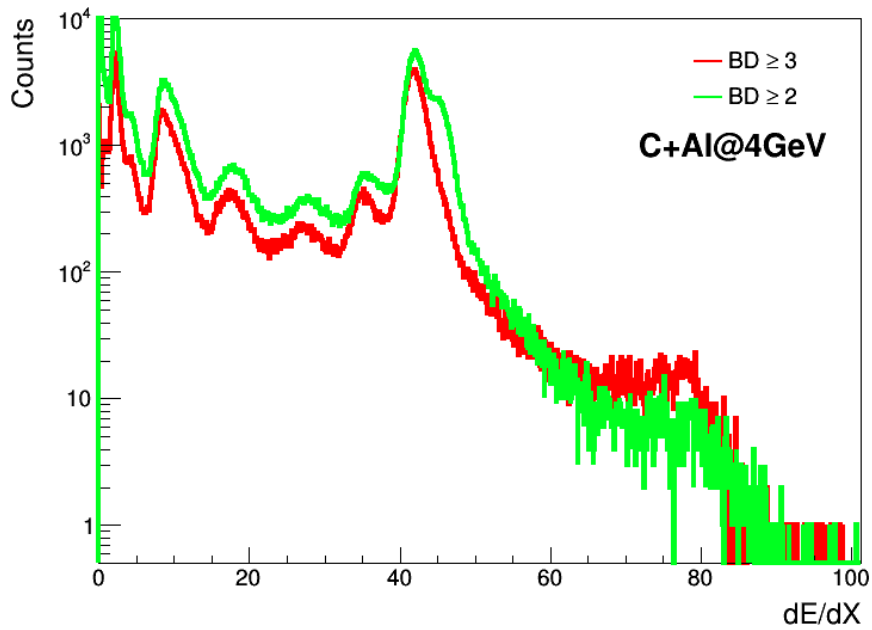


eSum\*30.

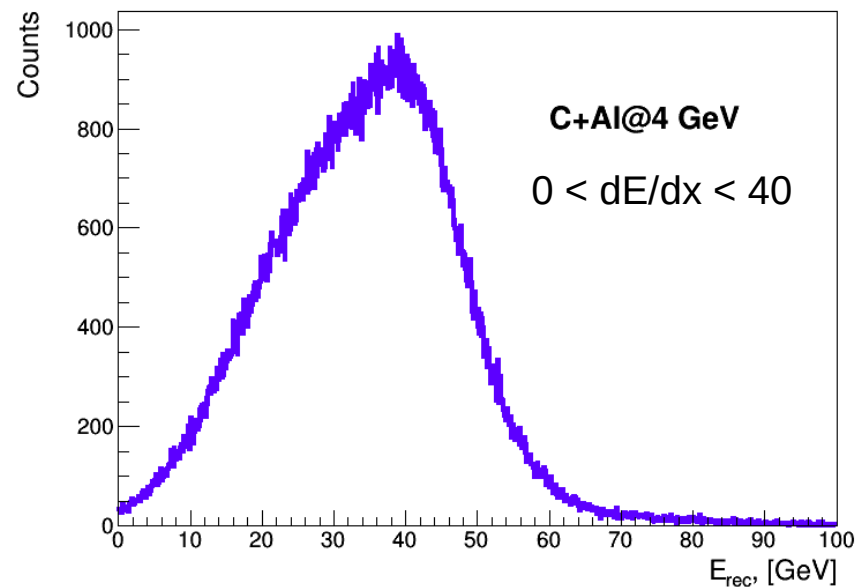


C+C@4 AGeV

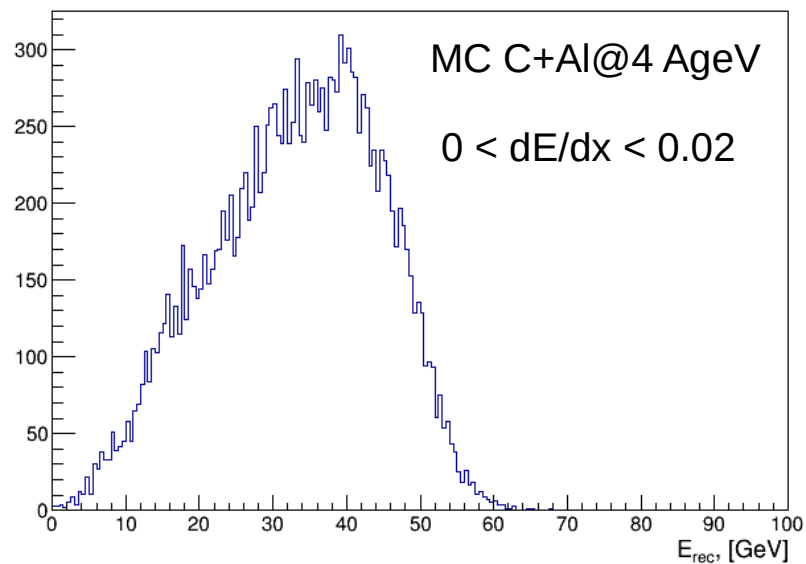
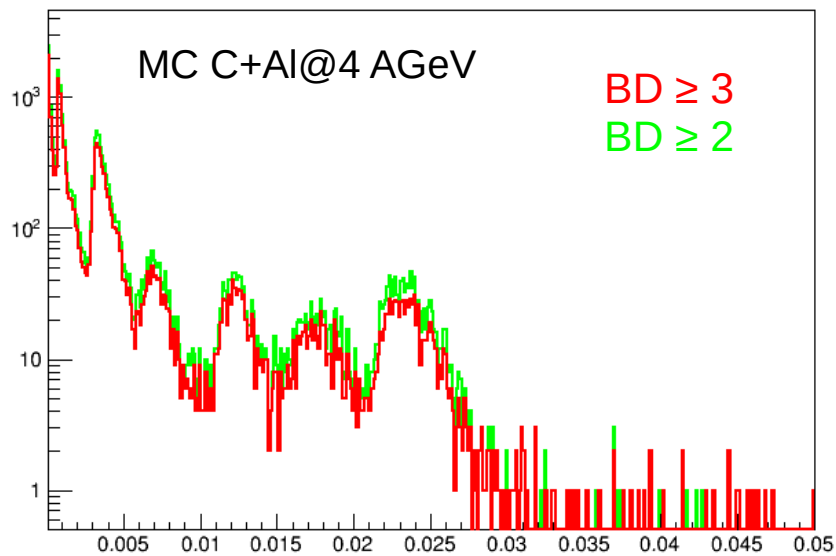




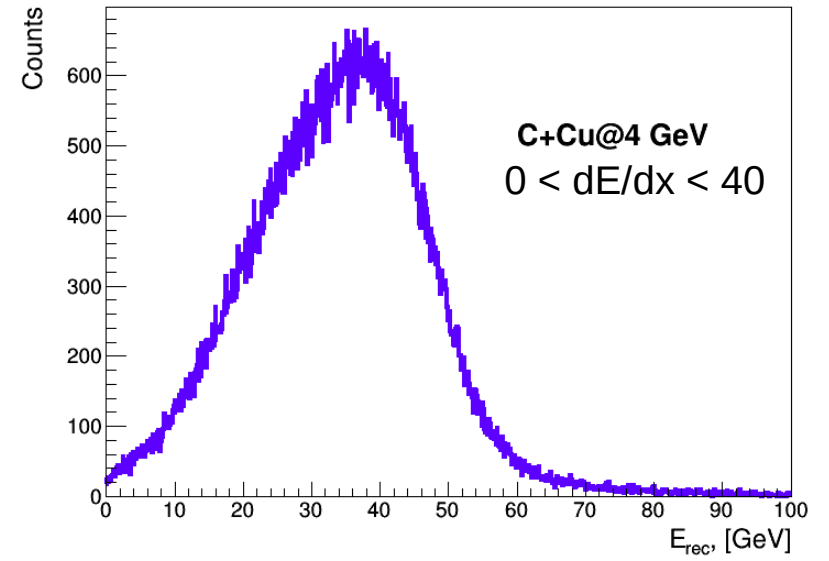
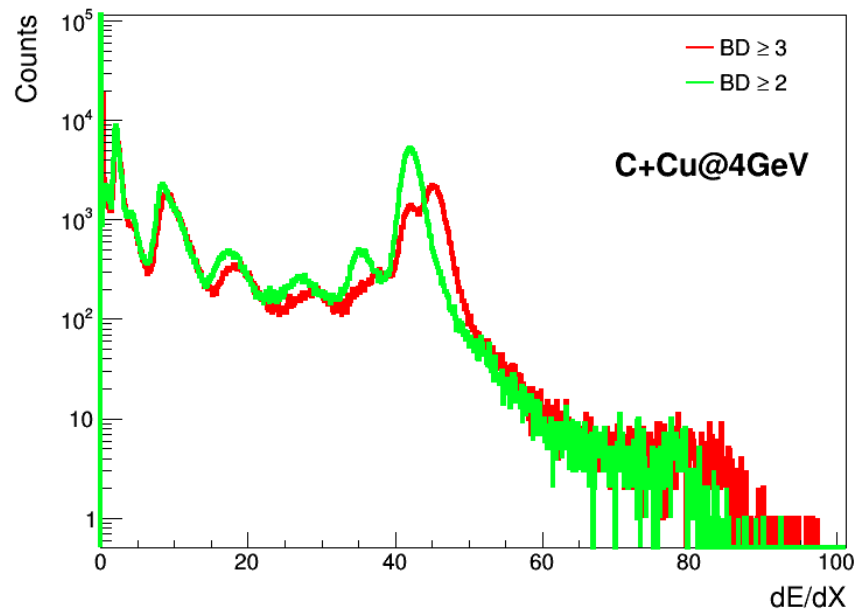
data



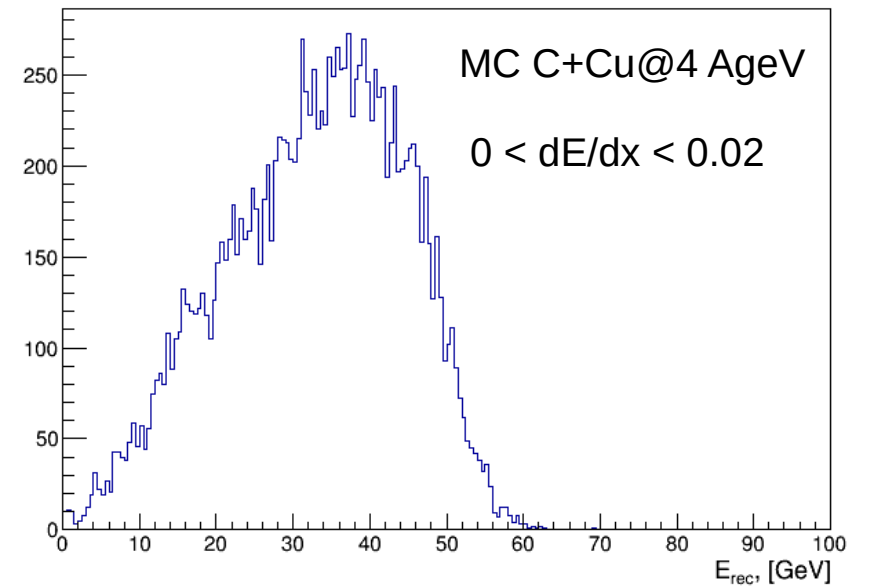
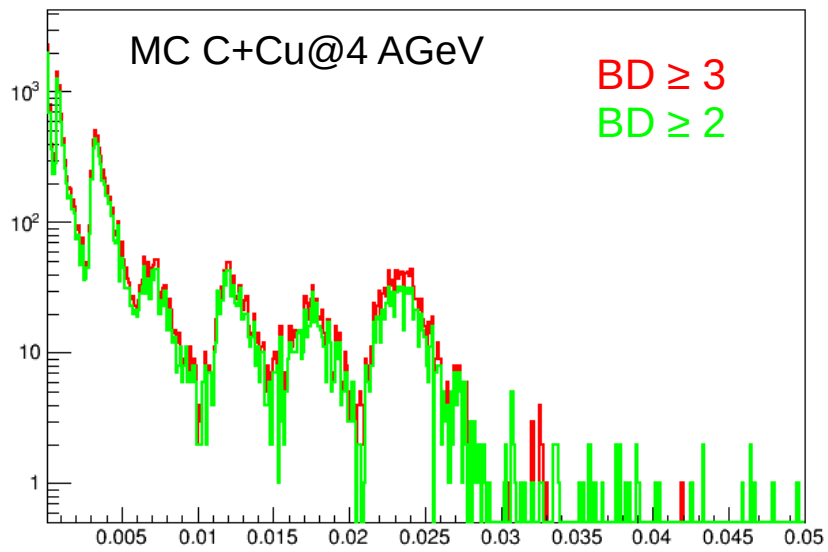
MC



data

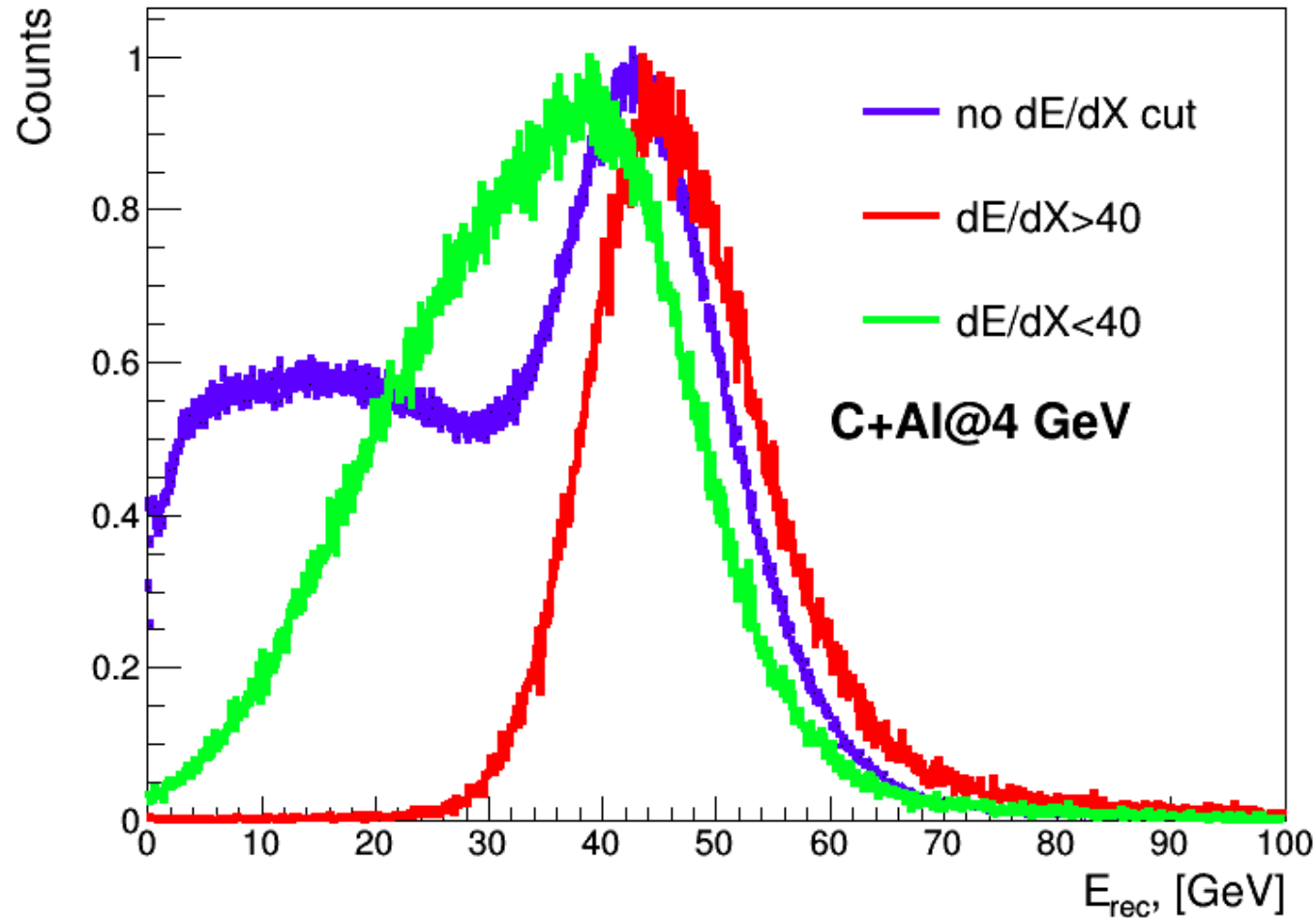


MC

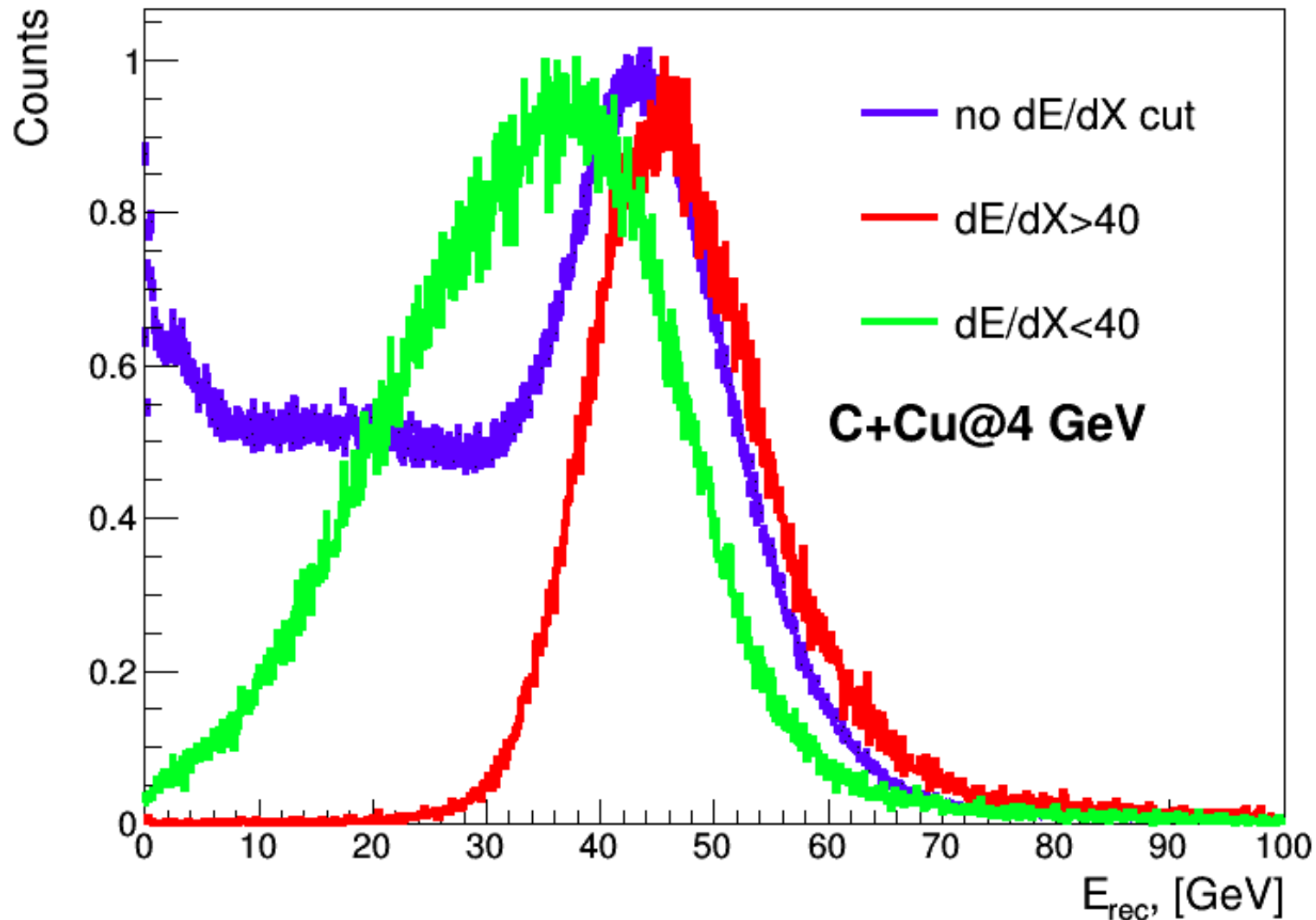


# Reconstructed energy in experiment for C+Al@4GeV

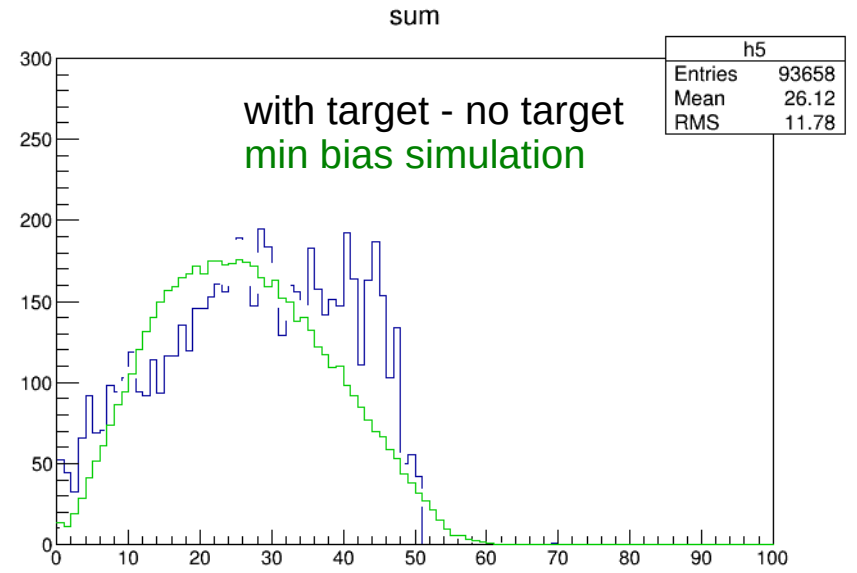
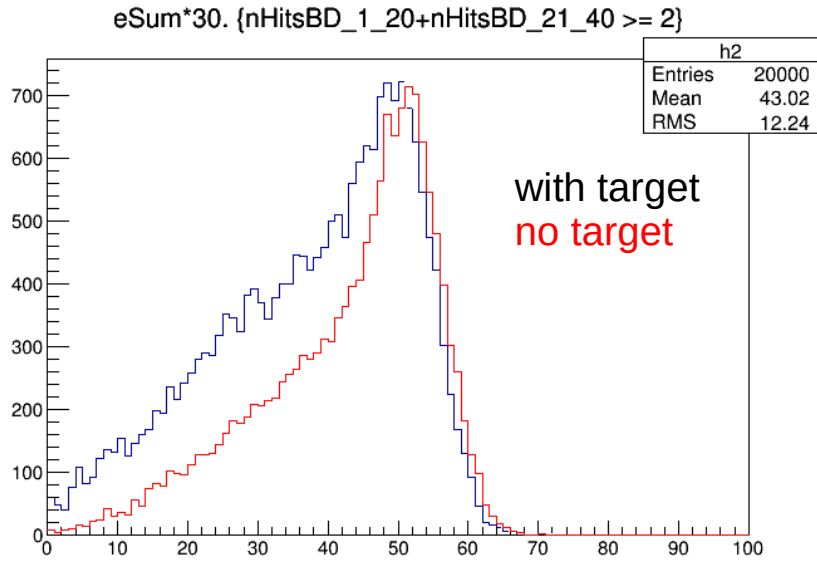
1551-1584 runs,  $BD \geq 2$



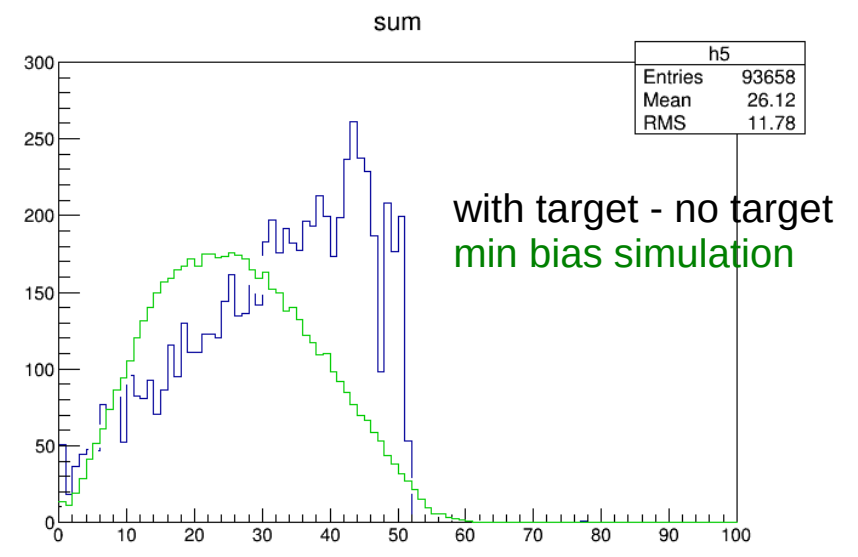
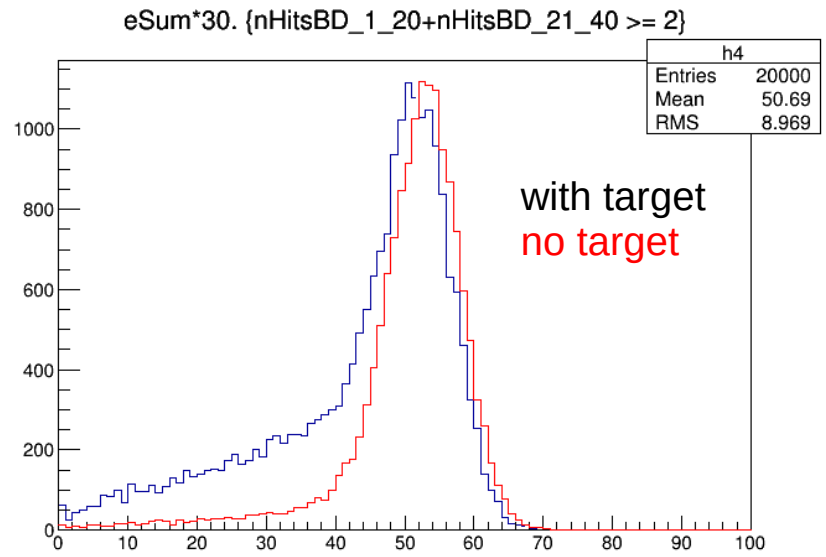
# Reconstructed energy in experiment for C+Cu@4GeV



# pure C beam simulation + 12mm C target, all BMN detectors

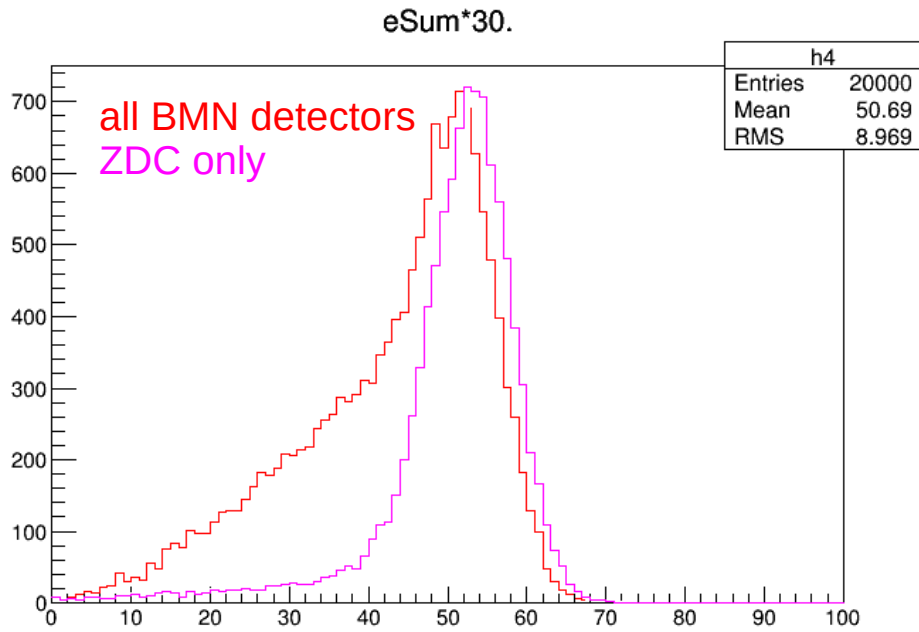


# pure C beam simulation + 12mm C target, ZDC only

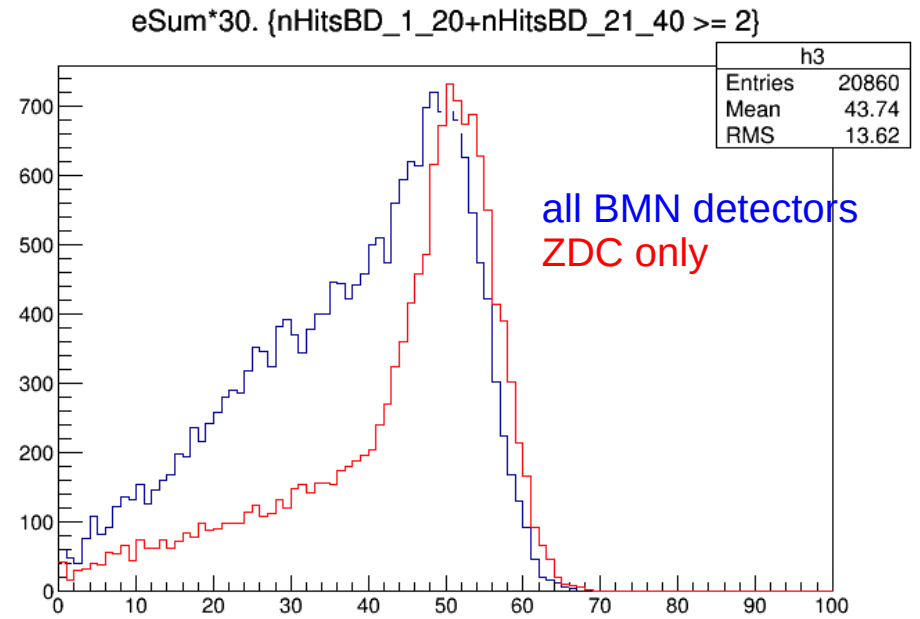




no target



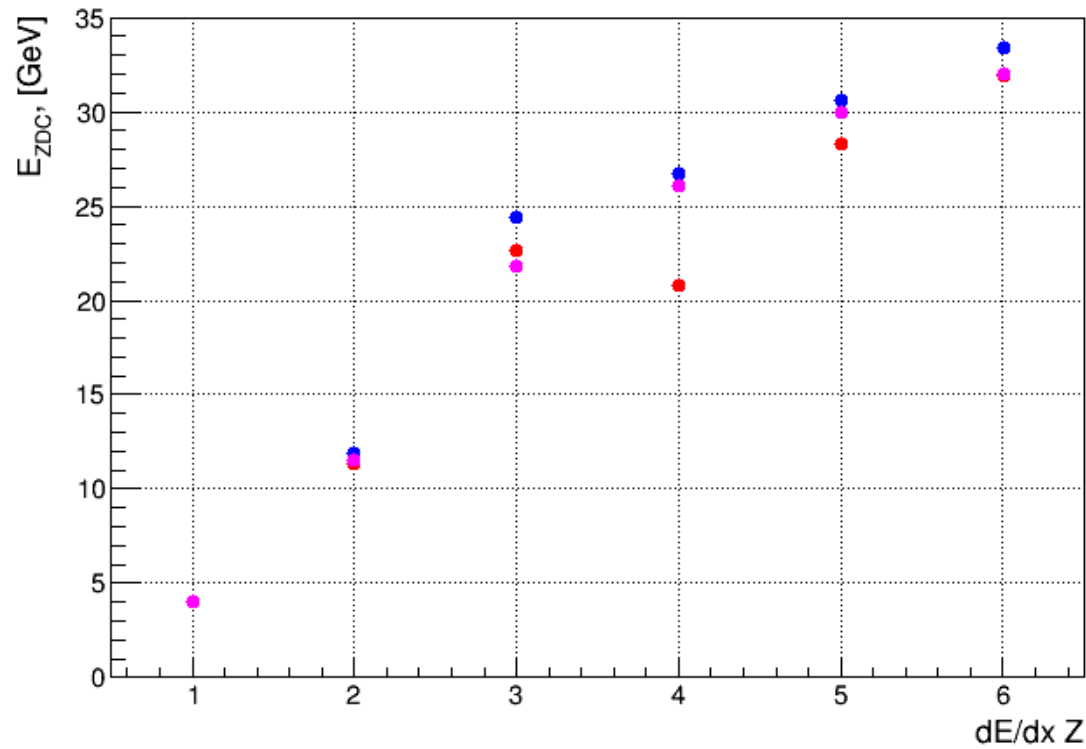
12 mm C target



68	61	54	47	40	36	32	28	21	14	7
67	60	53	46	39	35	31	27	20	13	6
66	59	52	45	104 98 92 86 80 74		26	19	12	5	
65	58	51	44	102 96 90 84	72	25	18	11	4	
64	57	50	43	101 95 89 83	77 71	24	17	10	3	
63	56	49	42	100 94 88 82	76 70					
62	55	48	41	99 93 87 81	75 69					

E\_ZDC (run 1540)

E\_ZDC (run 1600)



run1540  
run1600  
simulation