

Standalone GEANT4 NA61 PSD simulation, pure Pb 29 AGeV ion, no magnetic field

* G4Track Information: Particle = Pb208, Track ID = 1, Parent ID = 0

Step#	X	Y	Z	KineE	dEStep	StepLeng	TrakLeng	Volume	Process
0	5 cm	5 cm	-16 m	6.03 TeV	0 eV	0 fm	0 fm	World	initStep
1	5 cm	5 cm	50 cm	6.03 TeV	3.68e-12 eV	16.5 m	16.5 m	World	Transportation
2	5 cm	5 cm	50 cm	6.03 TeV	506 MeV	61.9 um	16.5 m	endPlateFe	ionIoni
3	5 cm	5 cm	50 cm	6.03 TeV	117 MeV	14 um	16.5 m	endPlateFe	ionIoni
...									
2102	5 cm	5 cm	52.9 cm	5.8 TeV	73.7 MeV	7.63 um	16.5 m	lead	ionIoni
2103	5 cm	5 cm	52.9 cm	5.8 TeV	4.26 MeV	495 nm	16.5 m	lead	ionIoni
2104	5 cm	5 cm	52.9 cm	0 eV	38.8 MeV	3.85 um	16.5 m	lead	ionInelastic

* G4Track Information: Particle = Pb207, Track ID = 2112, Parent ID = 1

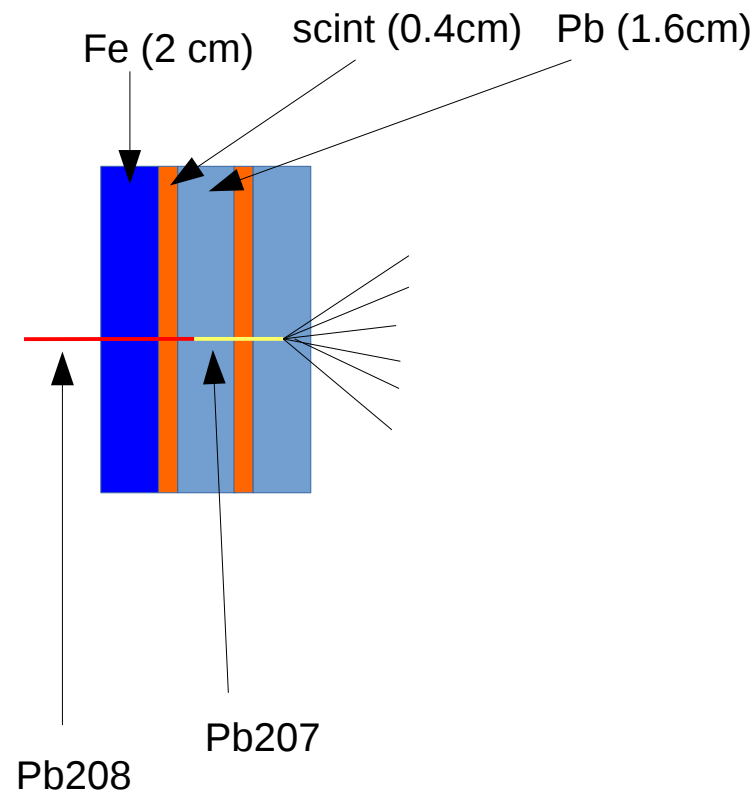
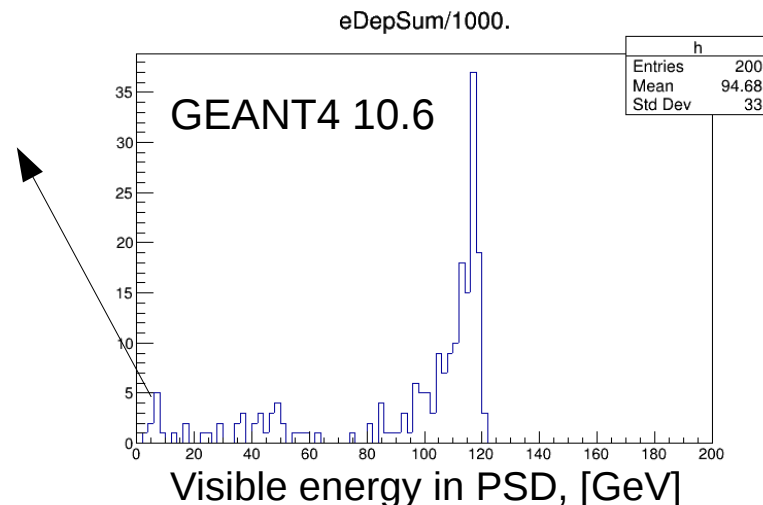
Step#	X	Y	Z	KineE	dEStep	StepLeng	TrakLeng	Volume	Process
0	5 cm	5 cm	52.9 cm	5.77 TeV	0 eV	0 fm	0 fm	lead	initStep
1	5 cm	5 cm	52.9 cm	5.77 TeV	39.1 MeV	3.92 um	3.92 um	lead	ionIoni
2	5 cm	5 cm	52.9 cm	5.77 TeV	113 MeV	11.8 um	15.7 um	lead	ionIoni
..									

=> (GeV particles..)

* G4Track Information: Particle = H4, Track ID = 4166, Parent ID = 2112
 * G4Track Information: Particle = neutron, Track ID = 4165, Parent ID = 2112
 * G4Track Information: Particle = neutron, Track ID = 4164, Parent ID = 2112
 * G4Track Information: Particle = neutron, Track ID = 4163, Parent ID = 2112
 * G4Track Information: Particle = proton, Track ID = 4162, Parent ID = 2112
 * G4Track Information: Particle = neutron, Track ID = 4161, Parent ID = 2112
 * G4Track Information: Particle = neutron, Track ID = 4160, Parent ID = 2112

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 * G4Track Information: Particle = neutron, Track ID = 3605, Parent ID = 2112
 * G4Track Information: Particle = neutron, Track ID = 3603, Parent ID = 2112
 * G4Track Information: Particle = pi-, Track ID = 3602, Parent ID = 2112
 * G4Track Information: Particle = proton, Track ID = 3600, Parent ID = 2112
 * G4Track Information: Particle = proton, Track ID = 3598, Parent ID = 2112

(~320 particles)



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* G4Track Information: Particle = neutron, Track ID = 4165, Parent ID = 2112

Step#	X	Y	Z	KineE	dEStep	StepLeng	TrakLeng	Volume	Process
0	5 cm	5 cm	54.8 cm	29.3 GeV	0 eV	0 fm	0 fm	lead	initStep
1	5 cm	5 cm	54.8 cm	29.3 GeV	0 eV	0 fm	0 fm	lead	nKiller

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* G4Track Information: Particle = neutron, Track ID = 4164, Parent ID = 2112

Step#	X	Y	Z	KineE	dEStep	StepLeng	TrakLeng	Volume	Process
0	5 cm	5 cm	54.8 cm	23.9 GeV	0 eV	0 fm	0 fm	lead	initStep
1	5 cm	5 cm	54.8 cm	23.9 GeV	0 eV	0 fm	0 fm	lead	nKiller

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(a lot!)

Total kinetic energy is ~ 1500 GeV (killed with nKiller)