
Subject: Re: Geant4: problem with set seed and cuts
Posted by [Jerome Boucher](#) on Thu, 08 Oct 2009 08:54:39 GMT
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Hello!

I've tried the setSeeds method and it works

I checked the g4Config.C , the option "stepLimiter+specialCuts+specialControls" is setted. If I looked to:-I- PndStack: the Total number of particles is changing according to my cut.

But if I look to the output it's always the same.

Index : 0 used in the geometry : Yes recalculation needed : No
Material : air
Range cuts : gamma 1 mm e- 1 mm e+ 1 mm
Energy thresholds : gamma 990 eV e- 990 eV e+ 990 eV
Region(s) which use this couple :
DefaultRegionForTheWorld

Index : 1 used in the geometry : Yes recalculation needed : No
Material : aluminium
Range cuts : gamma 1 mm e- 1 mm e+ 1 mm
Energy thresholds : gamma 6.88731 keV e- 596.68 keV e+ 568.011 keV
Region(s) which use this couple :
DefaultRegionForTheWorld

Index : 2 used in the geometry : Yes recalculation needed : No
Material : iron
Range cuts : gamma 1 mm e- 1 mm e+ 1 mm
Energy thresholds : gamma 20.8323 keV e- 1.28002 MeV e+ 1.21851 MeV
Region(s) which use this couple :
DefaultRegionForTheWorld

Index : 3 used in the geometry : Yes recalculation needed : No
Material : copper
Range cuts : gamma 1 mm e- 1 mm e+ 1 mm
Energy thresholds : gamma 24.6072 keV e- 1.39521 MeV e+ 1.31192 MeV
Region(s) which use this couple :
DefaultRegionForTheWorld

Index : 4 used in the geometry : Yes recalculation needed : No
Material : steel
Range cuts : gamma 1 mm e- 1 mm e+ 1 mm
Energy thresholds : gamma 20.8323 keV e- 1.31192 MeV e+ 1.23361 MeV
Region(s) which use this couple :
DefaultRegionForTheWorld

Index : 5 used in the geometry : Yes recalculation needed : No
Material : vacuum
Range cuts : gamma 1 mm e- 1 mm e+ 1 mm

Energy thresholds : gamma 990 eV e- 990 eV e+ 990 eV

Region(s) which use this couple :

DefaultRegionForTheWorld

Index : 6 used in the geometry : Yes recalculation needed : No

Material : Al+Be

Range cuts : gamma 1 mm e- 1 mm e+ 1 mm

Energy thresholds : gamma 4.45676 keV e- 496.074 keV e+ 478.087 keV

Region(s) which use this couple :

DefaultRegionForTheWorld

Index : 7 used in the geometry : Yes recalculation needed : No

Material : TPCmixture

Range cuts : gamma 1 mm e- 1 mm e+ 1 mm

Energy thresholds : gamma 990 eV e- 990 eV e+ 990 eV

Region(s) which use this couple :

DefaultRegionForTheWorld

Index : 8 used in the geometry : Yes recalculation needed : No

Material : silicon

Range cuts : gamma 1 mm e- 1 mm e+ 1 mm

Energy thresholds : gamma 6.88731 keV e- 540.718 keV e+ 521.113 keV

Region(s) which use this couple :

DefaultRegionForTheWorld

Index : 9 used in the geometry : Yes recalculation needed : No

Material : carbon

Range cuts : gamma 1 mm e- 1 mm e+ 1 mm

Energy thresholds : gamma 3.29462 keV e- 568.011 keV e+ 554.196 keV

Region(s) which use this couple :

DefaultRegionForTheWorld

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Could you explain me why?

best regards

jeorme