Subject: Energy-Loss in Geant3&4

Posted by Sebastian Neubert on Wed, 28 Nov 2007 13:25:13 GMT

Hi!

With the stepLimiter switched on there is no Landau-Energy loss anymore... see attached plots:

G3:

G4:

File Attachments

1) G3_landau.png, downloaded 1278 times
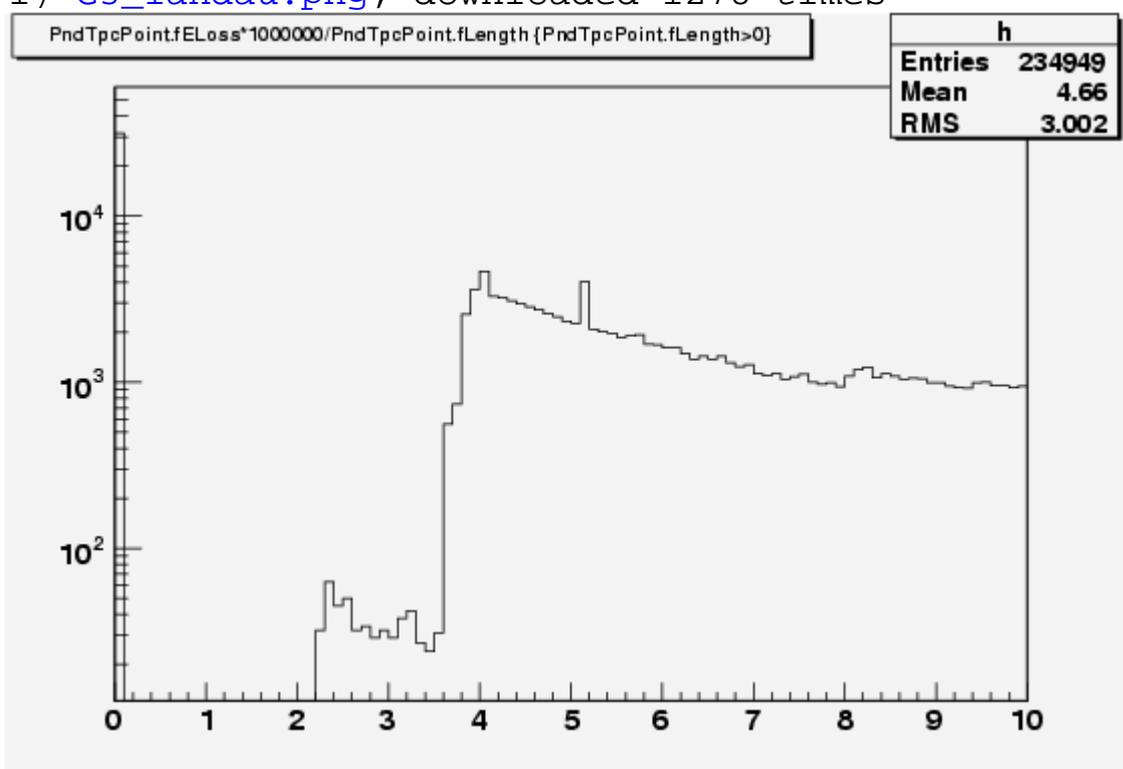
2) G4_landau.png, downloaded 1246 times

PndTpcPoint.fELoss*1000000/PndTpcPoint.fLength {PndTpcPoint.fLength>0}

h	
Entries	1195942
Mean	1.318
RMS	0.7628
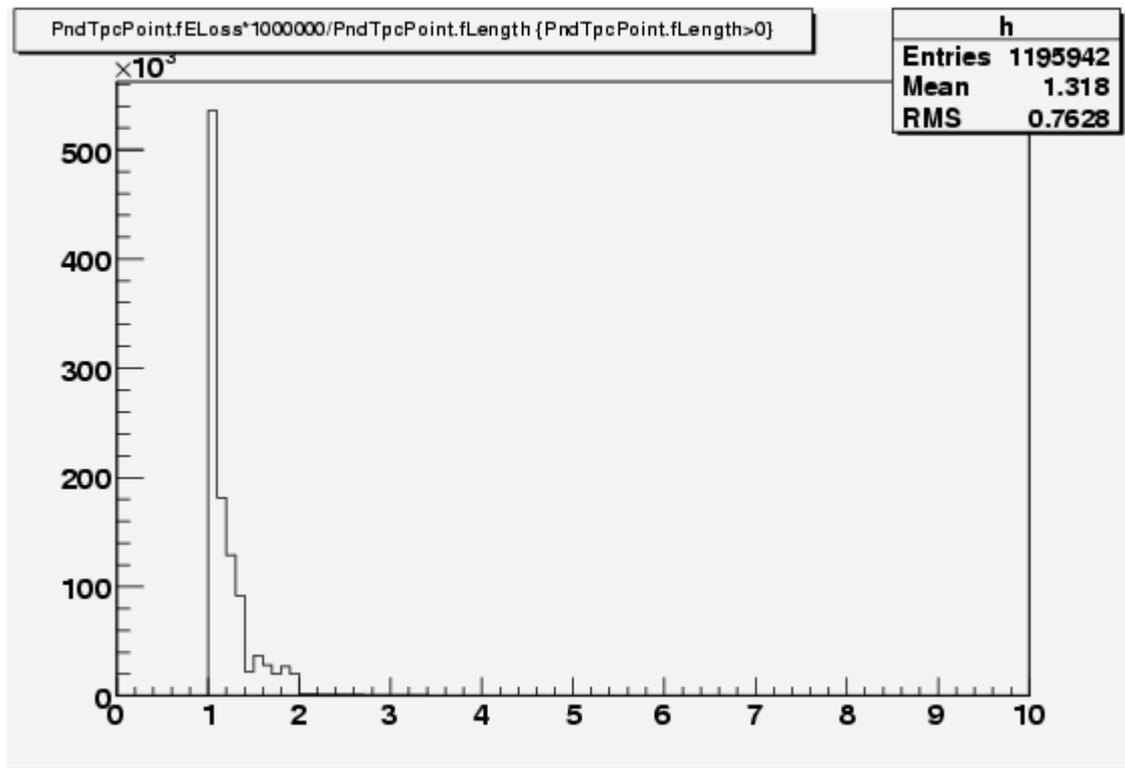
Subject: Re: Energy-Loss in Geant3&4
Posted by Sebastian Neubert on Wed, 28 Nov 2007 13:31:44 GMT
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Just for comparison this is how it looks like if I switch off the stepLimiter in G4:

File Attachments
1) G4_landau_noStepLim.png, downloaded 1103 times

PndTpcPoint.fELoss*1000000/PndTpcPoint.fLength {PndTpcPoint.fLength>0}

h	
Entries	9946
Mean	3.249
RMS	2.387