Subject: Re: Stepsize in TPC Simulation with new external packages
Posted by Mohammad Al-Turany on Mon, 03 Dec 2007 15:49:55 GMT
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Hi,

Another intresting feature of G4!

changing the physicslist to QGSP_BERT and comparing

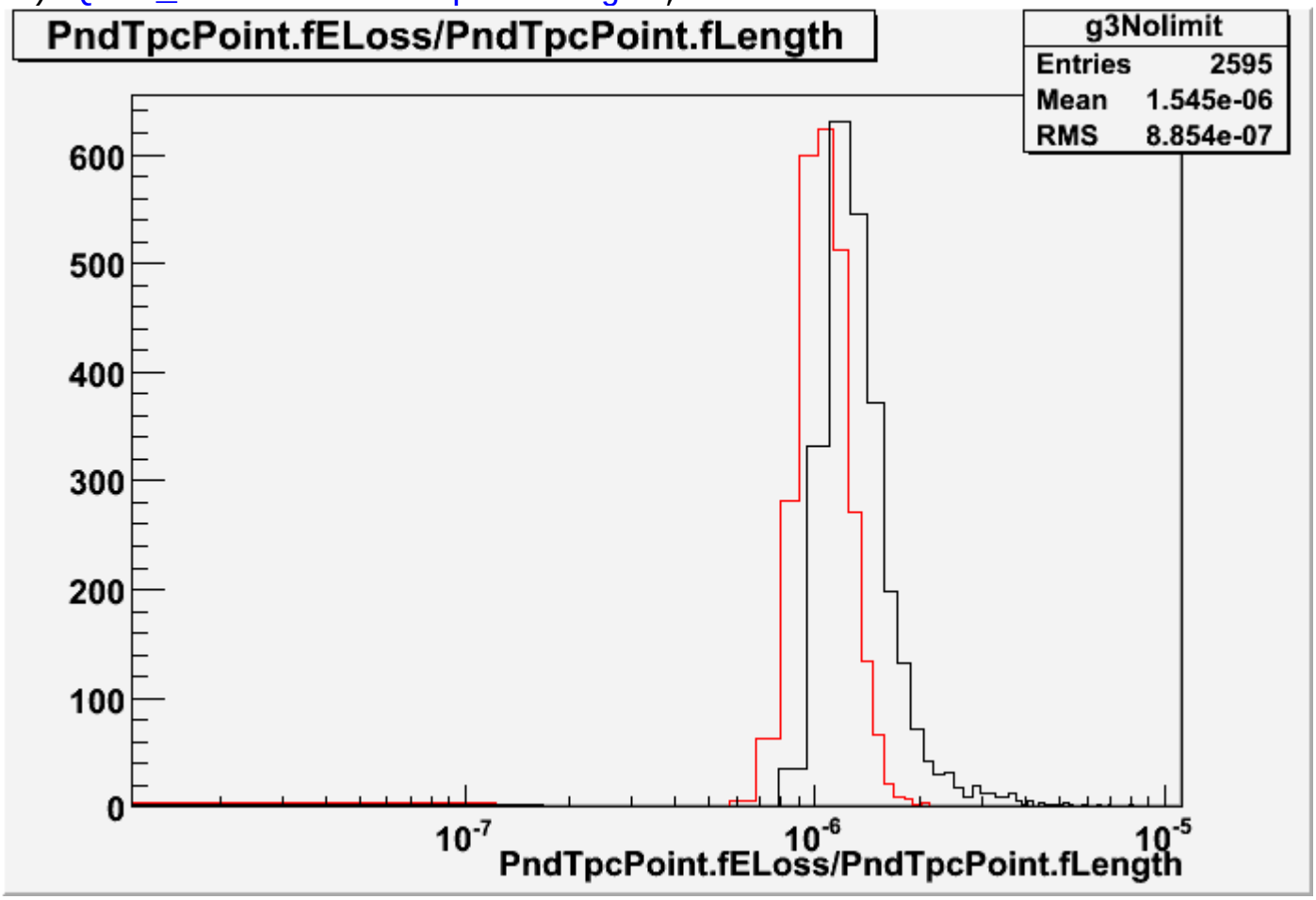
1. To G3 (G4 in Red, No step limit)

2. To G4 with steplimit: (Steplimit in black)

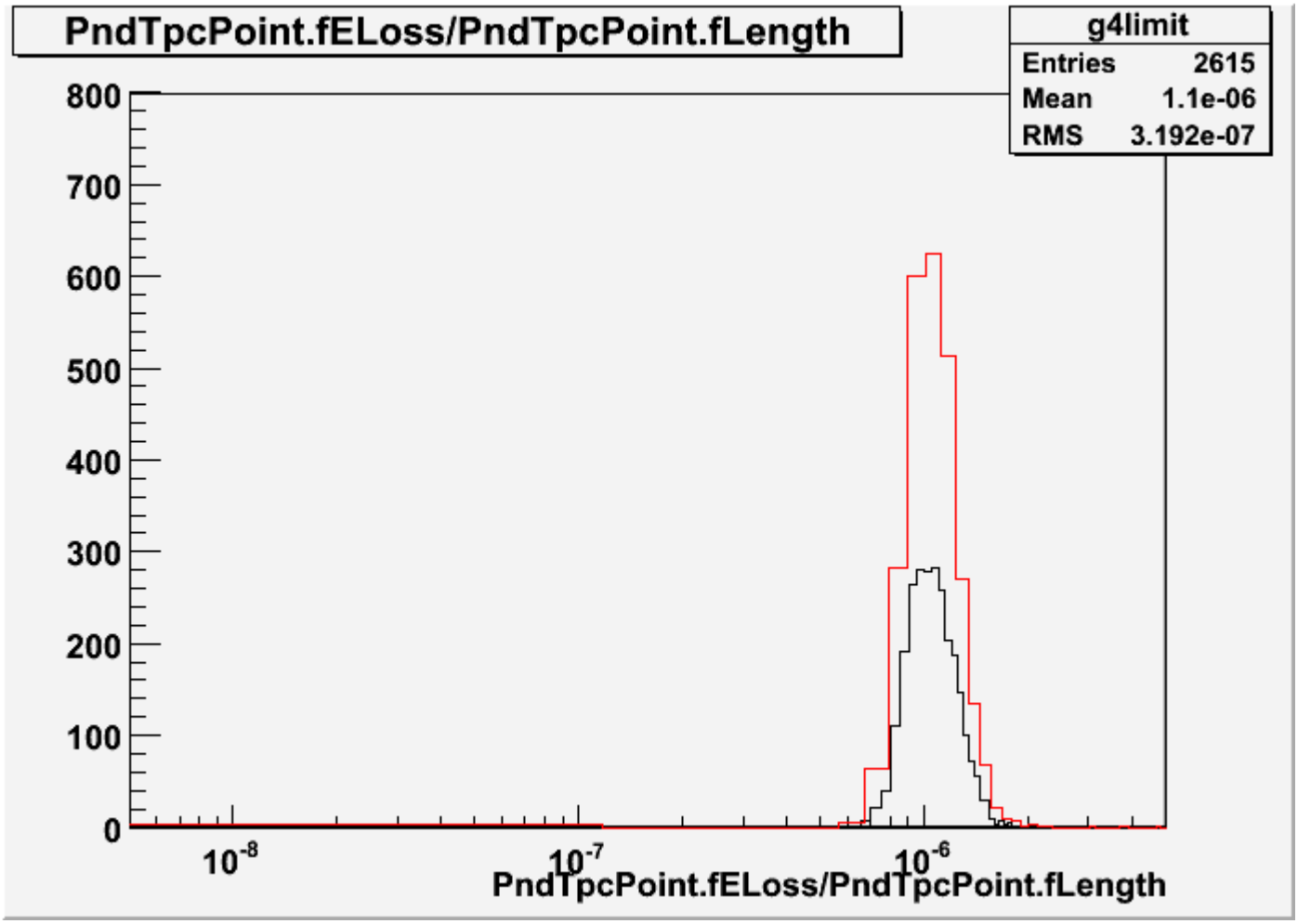
So it seems that the energy loss of charged particles is physics list dependent in G4??

File Attachments

1) QGSP_BERTvsG3NoStepLimit.gif, downloaded 1628 times



2) QGSP_BERT_log.gif, downloaded 1507 times


PndTpcPoint.fELoss/PndTpcPoint.fLength
g4limit
Entries 2615
Mean 1.1e-06
RMS 3.192e-07
800
700
600
500
400
300
200
100
0
10^-8
10^-7
10^-6
PndTpcPoint.fELoss/PndTpcPoint.fLength