
Subject: Re: Stepsize in TPC Simulation with new external packages

Posted by [Viola Michael](#) on Fri, 30 Nov 2007 16:17:48 GMT

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Hi!

I have a question concerning the stepsize limitation and the effects on De/dx. I have plotted the MC-Energyloss over Length

(Pion+, Mometum=0.5 Gev/c, 100 Events)

with Options

"specialCuts+specialControls" in G4Config.C, it looks fine to me, like a landau, as expected:

I have plotted the stepsizes, too:

And now my problem: i need stepsize limitation, i turned it on with Option:

"specialCuts+specialControls+stepLimiter" (everything else unchanged)

there is stepsize limitation, like i have befor with the old Release, but my de/dx-MC data is broken:

(stepsize limitation works:)

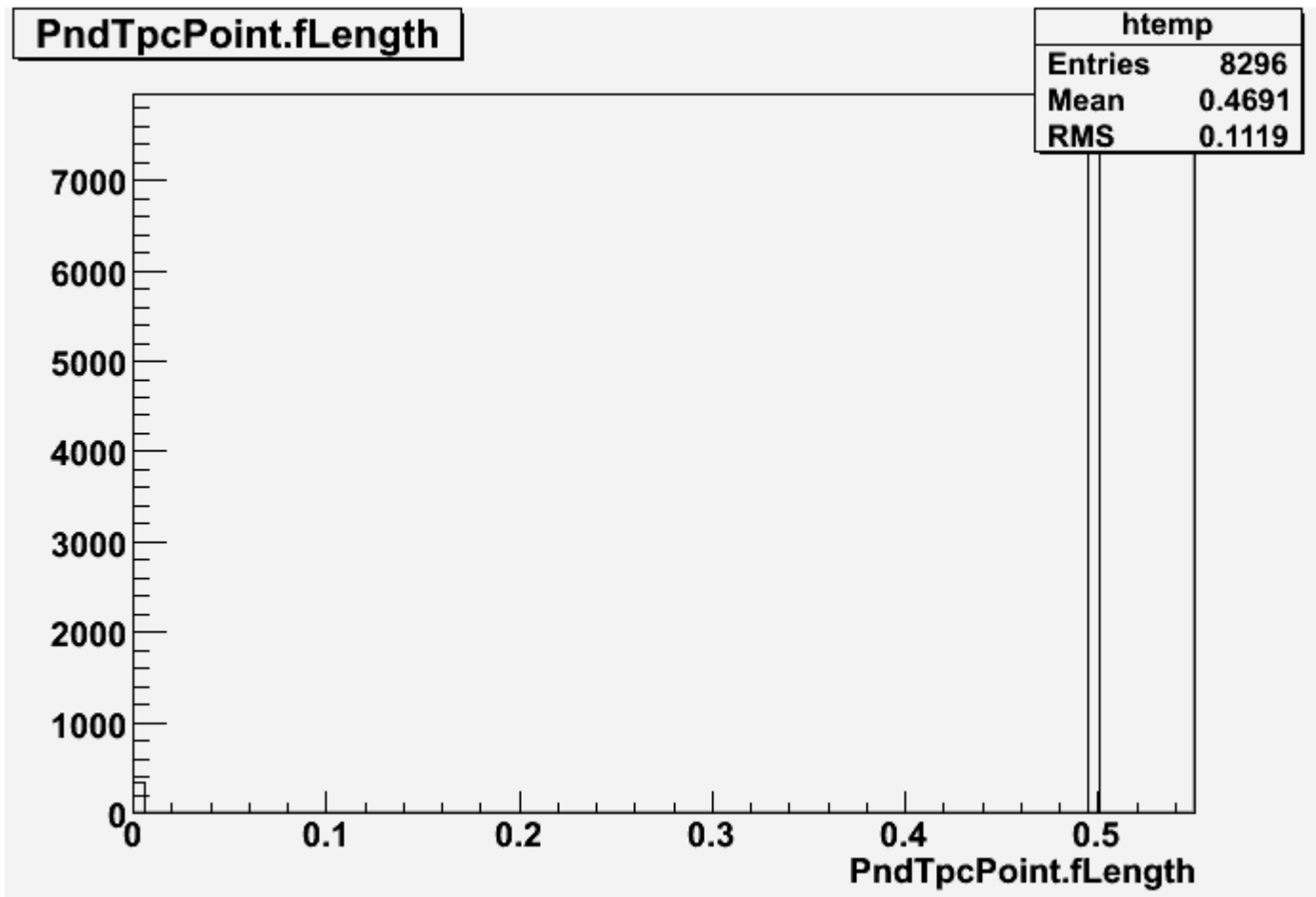
What do i have to do to fix this?

Thanks in advance!

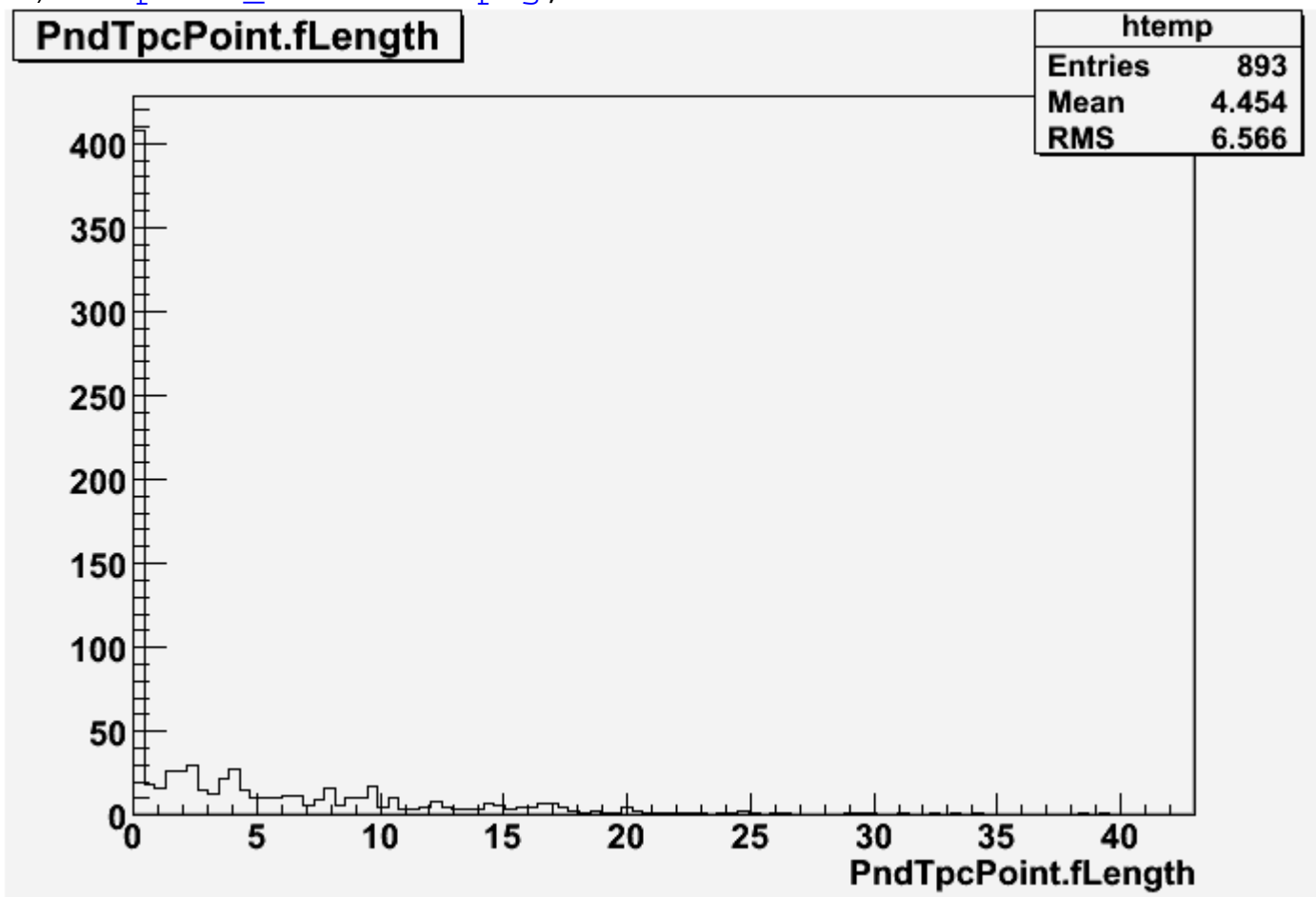
Viola

File Attachments

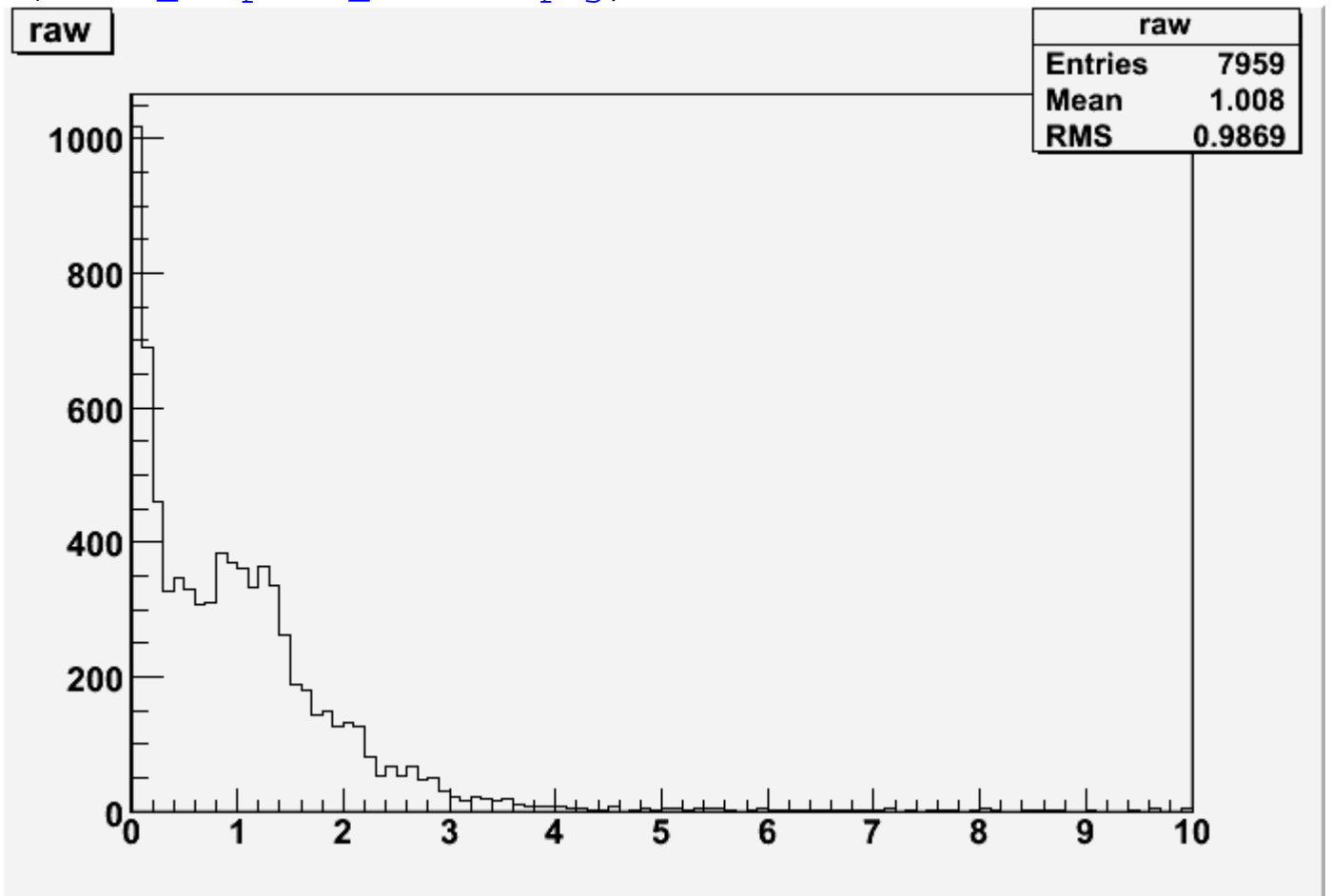
1) [stepsize_limited.png](#), downloaded 1462 times



2) [stepsize_unlimited.png](#), downloaded 1480 times



3) [with_stepsize_limiter.png](#), downloaded 1458 times



4) [without_stepsize_limiter.png](#), downloaded 1440 times

raw

raw	
Entries	500
Mean	1.022
RMS	0.4311

