Subject: Re: PndBoxGenerator -> distributions uniform in cos(theta)
Posted by StefanoSpataro on Tue, 22 May 2007 17:11:57 GMT
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To show that the PndBoxGenerator works...

Comparison plots with the two methods:
RED - uniform theta
BLUE - uniform cos(theta)

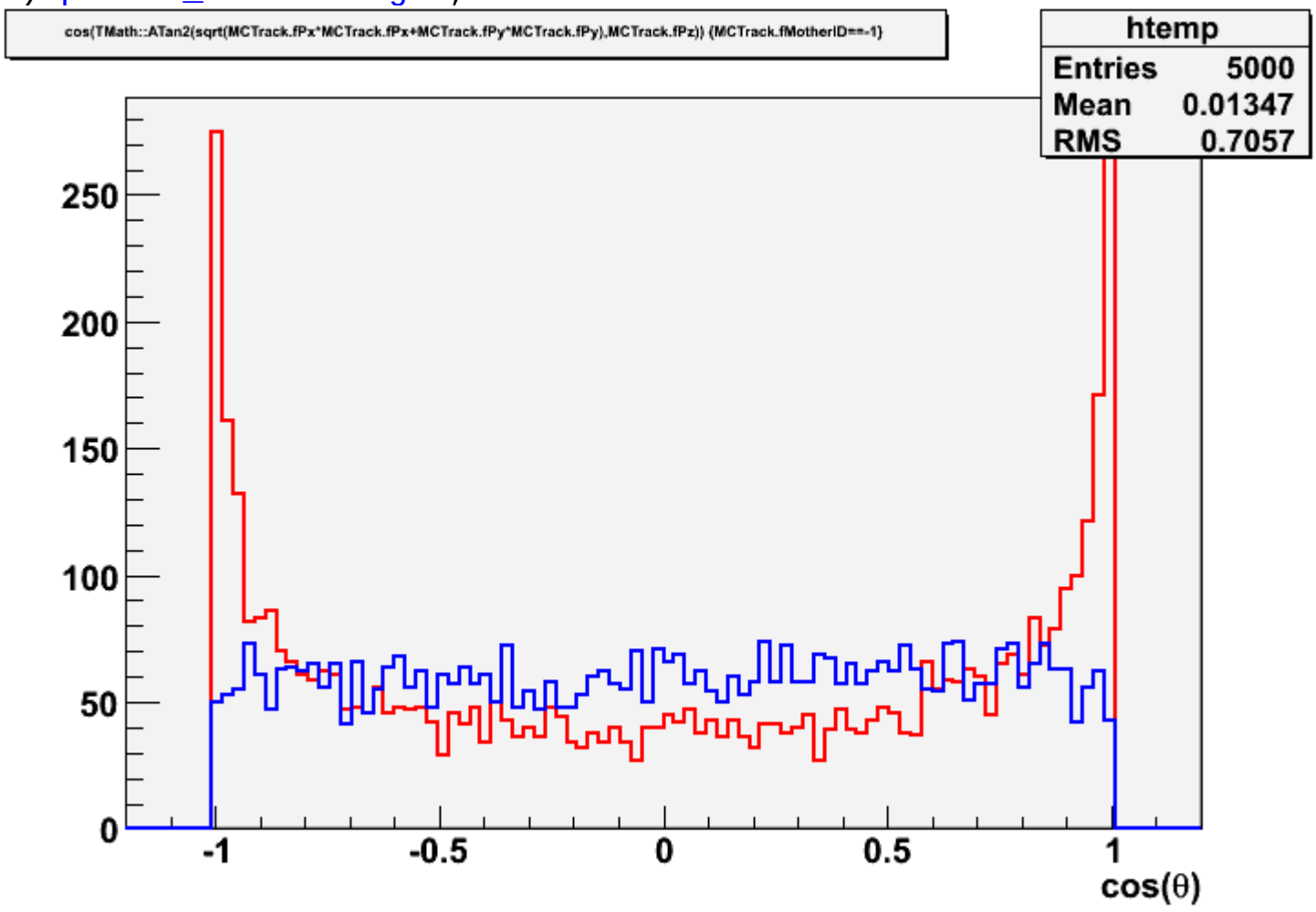
Theta distributions

Cos(Thata) distributions

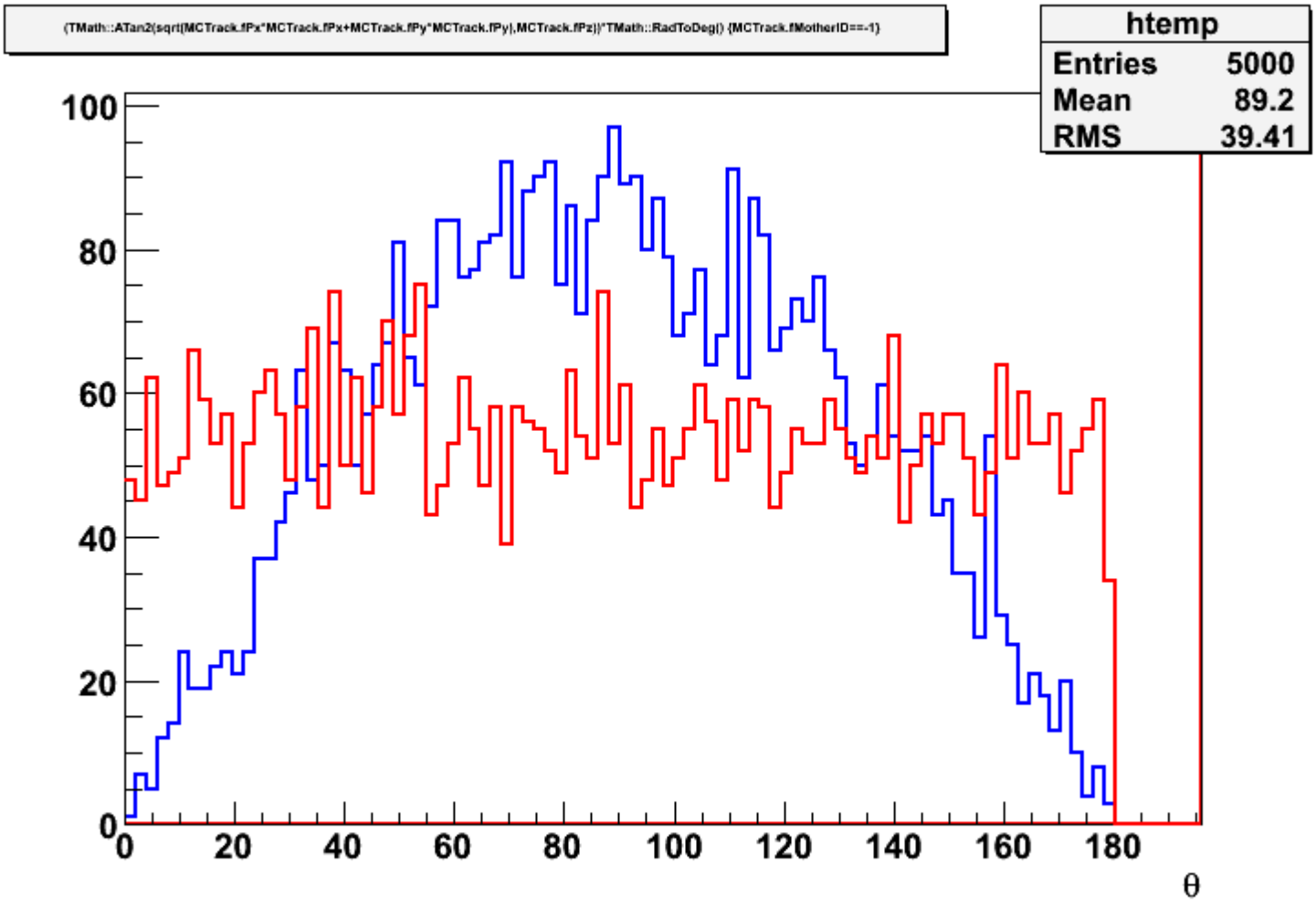
Yes, it works!

File Attachments

1) pndbox_costheta.gif, downloaded 1487 times



2) pndbox_theta.gif, downloaded 1480 times


(TMath::ATan2(sqrt(MCTrack.fPx*MCTrack.fPx+MCTrack.fPy*MCTrack.fPy),MCTrack.fPz))*TMath::RadToDeg() (MCTrack.fMotherID==-1)
htemp
Entries 5000
Mean 89.2
RMS 39.41
100
80
60
40
20
0
0 20 40 60 80 100 120 140 160 180
θ