Subject: Re: PScatterCrossSection with pi0 decay
Posted by Michael Kunkel on Tue, 21 May 2013 21:54:53 GMT
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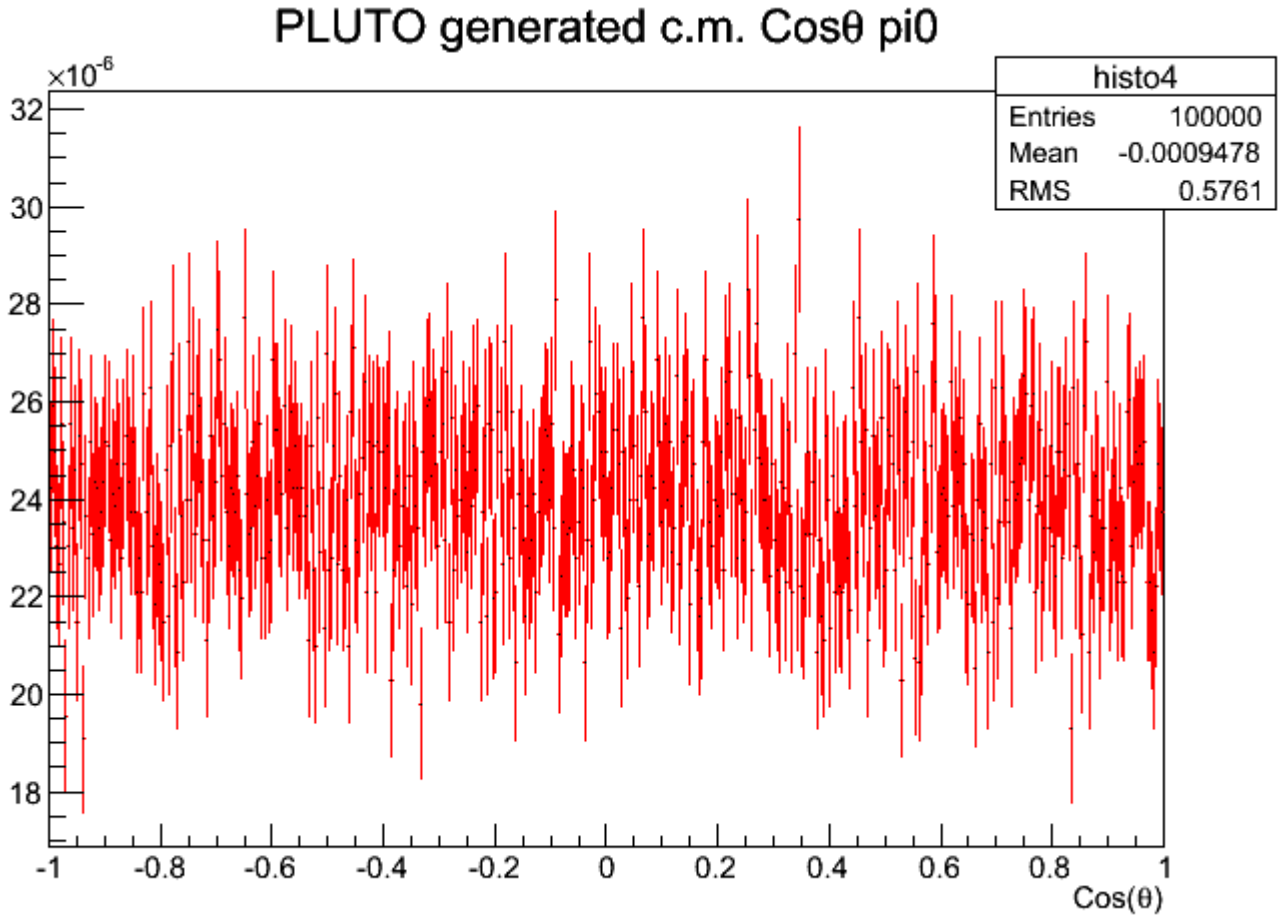
Here is a more in-depth explanation.
I have a script, pi0_XSection.C, in which I ask PLUTO to sample the inputted histograms. For the sample provided, I ask only one c.m. energy and one histogram. I get a flat distribution in Cos(theta) instead of the inputted histogram. See figure 1.

Then I change that macro for the case when I have known this procedure to work, eta (macro pi0_maskEta_XSection.C), and I run it. I get a topology similar to the inputted histogram. See figure 2.

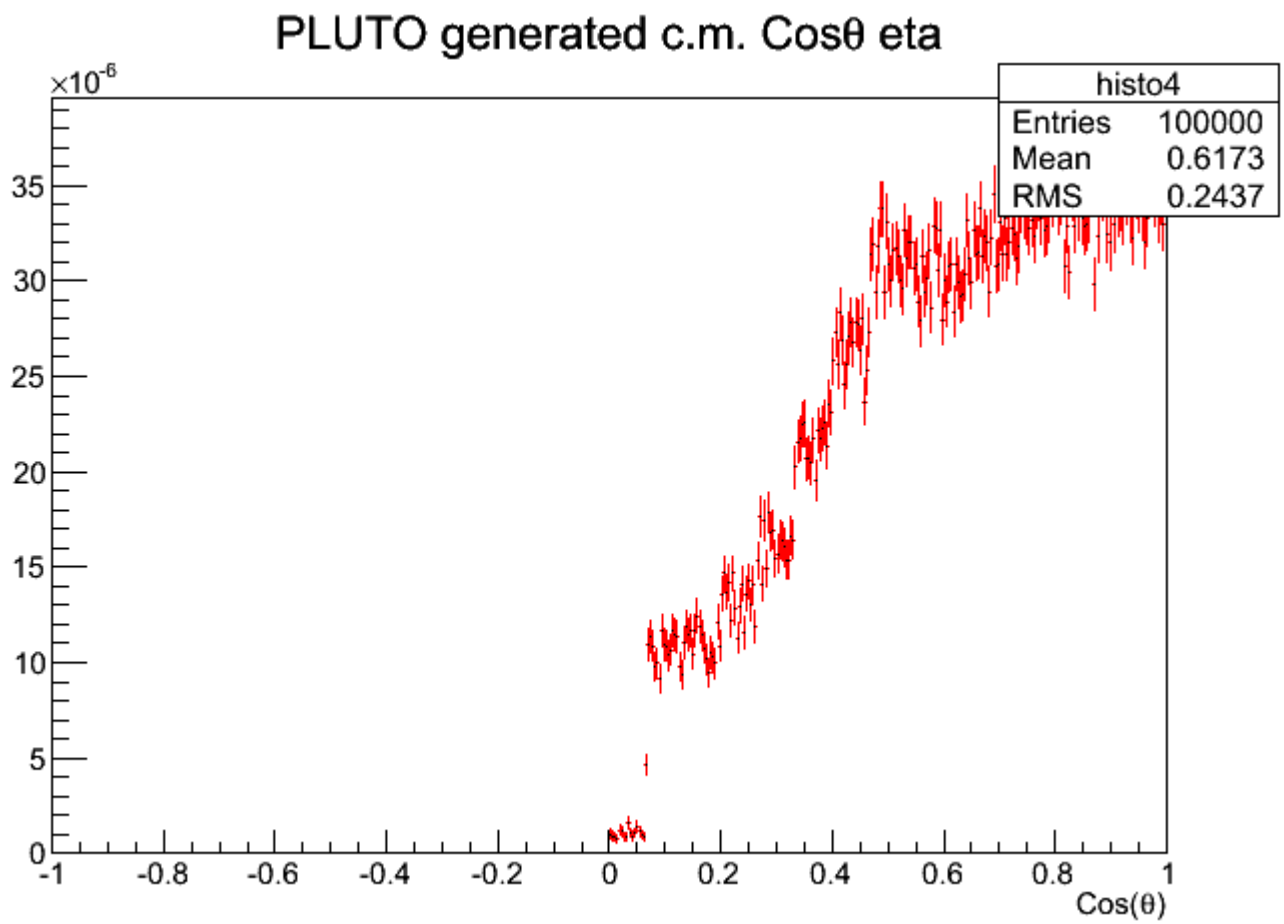
Thanks
Michael

File Attachments

1) PI0_Hists.root, downloaded 522 times
2) pi0_XSection.C, downloaded 528 times
3) pi0_maskEta_XSection.C, downloaded 556 times
4) XSECTIO_GEN_PLOTSPLUTO_PI0_generated_cos_theta.png, downloaded 1475 times



5) XSECTIO_GEN_PLOTSPLUTO_ETA_generated_cos_theta.png, downloaded 1396 times


PLUTO generated c.m. Cosθ eta
×10^-6
35
30
25
20
15
10
5
0
-1
-0.8
-0.6
-0.4
-0.2
0
0.2
0.4
0.6
0.8
1
Cos(θ)
histo4
Entries 100000
Mean 0.6173
RMS 0.2437