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.
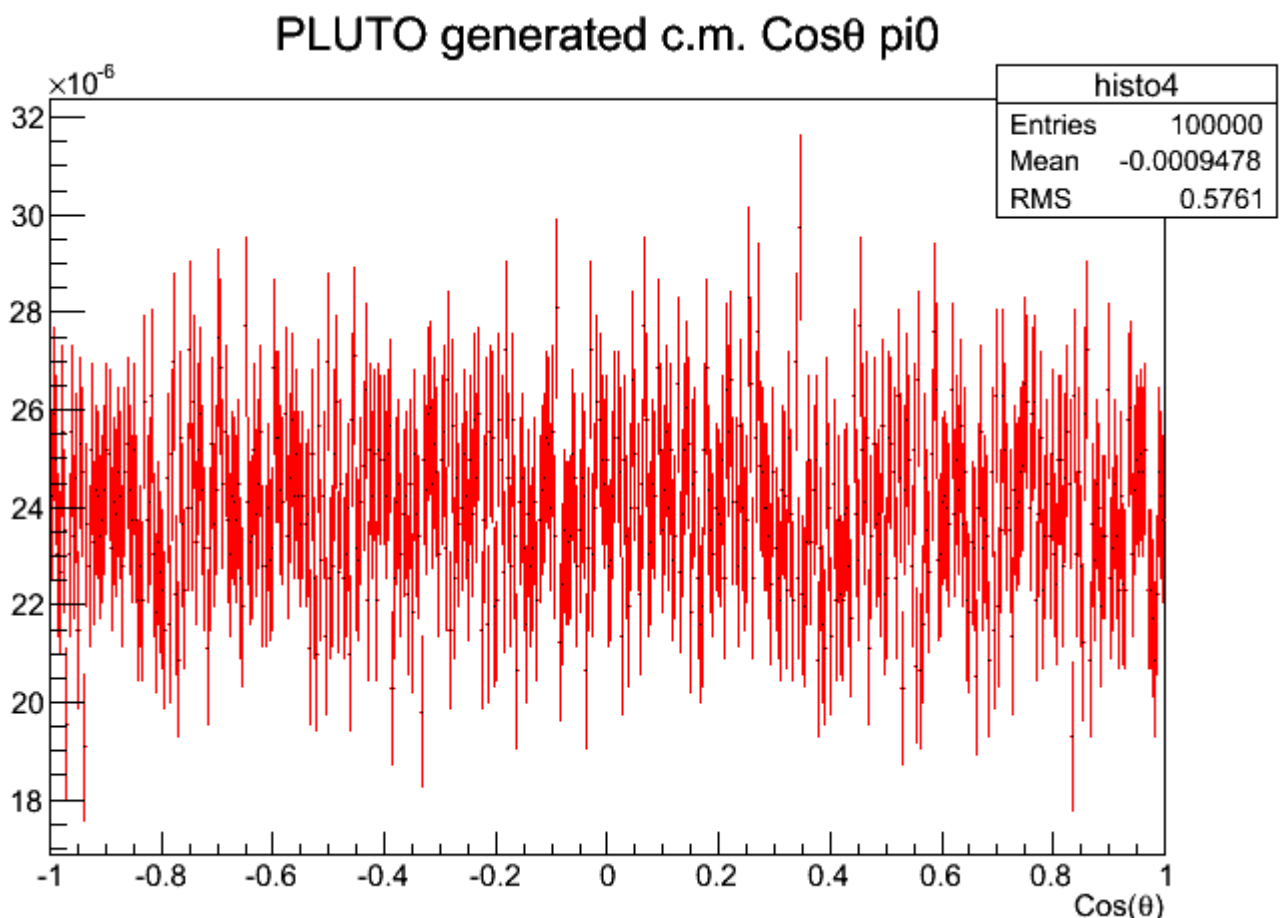

Then I change that macro for the case when I have known this procedure to work, eta (macro pi0_maskEta_XSection.C), and I run it. I get a topology similar to the inputted histogram. See figure 2.

Thanks
Michael

File Attachments

1) PI0_Hists.root, downloaded 328 times
2) pi0_XSection.C, downloaded 322 times
3) pi0_maskEta_XSection.C, downloaded 351 times
4) XSECTIO_GEN_PLOTSPLUTO_PI0_generated_cos_theta.png, downloaded 684 times

5) XSECTIO_GEN_PLOTSPLUTO_ETA_generated_cos_theta.png, downloaded 610 times

PLUTO generated c.m. Cosθ eta

histo4	
Entries	100000
Mean	0.6173
RMS	0.2437

Cos(θ)