Subject: Re: Bear Smear and Cross Sections
Posted by Michael Kunkel on Fri, 24 Aug 2012 17:32:42 GMT
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Thanks for showing me my error.

A few more questions/observations.

I am unable to run macros unless I use the full path of PF2EvalBatch.h in the PScatterCrossSection.h

Error: cannot open file "PF2EvalBatch.h"
/Users/Mike/Pluto/pluto_v5.40.5/plugins/scatter_mod/PScatterCrossSection.h:15:

Also, I am unclear on what SetNpx/y does. Looking in the code I see that on line 58
if (npy>0) pf2->SetNpx(npy);
Is this suppose to be SetNpx for npy? Could you also elaborate more on this functionality?

Also, beam smearing is not working with the PScatterCrossSection. I checked this by smearing the beam 1.1 -> 5.7 GeV in the lab, translating this to c.m. energy and generate. The lab beam distribution is flat, instead of a bremsstrahlung (1/x) function I input into beam smear, however the c.m energy is not flat(see below). I am sure I know a work around for this, but I thought I would bring it to your attention.

Lab Frame:

c.m. Frame:

And lastly,

Quote:
PS: Do not forget that the y-axis (a linear increase of _f) was just dummy.

I do not understand this. Once I corrected my sytax for my double boost, I checked my distributed cos(theta) of the PLUTO generation. It looks like the input. (see below) Would you also elaborate more on on the meaning of your P.S.

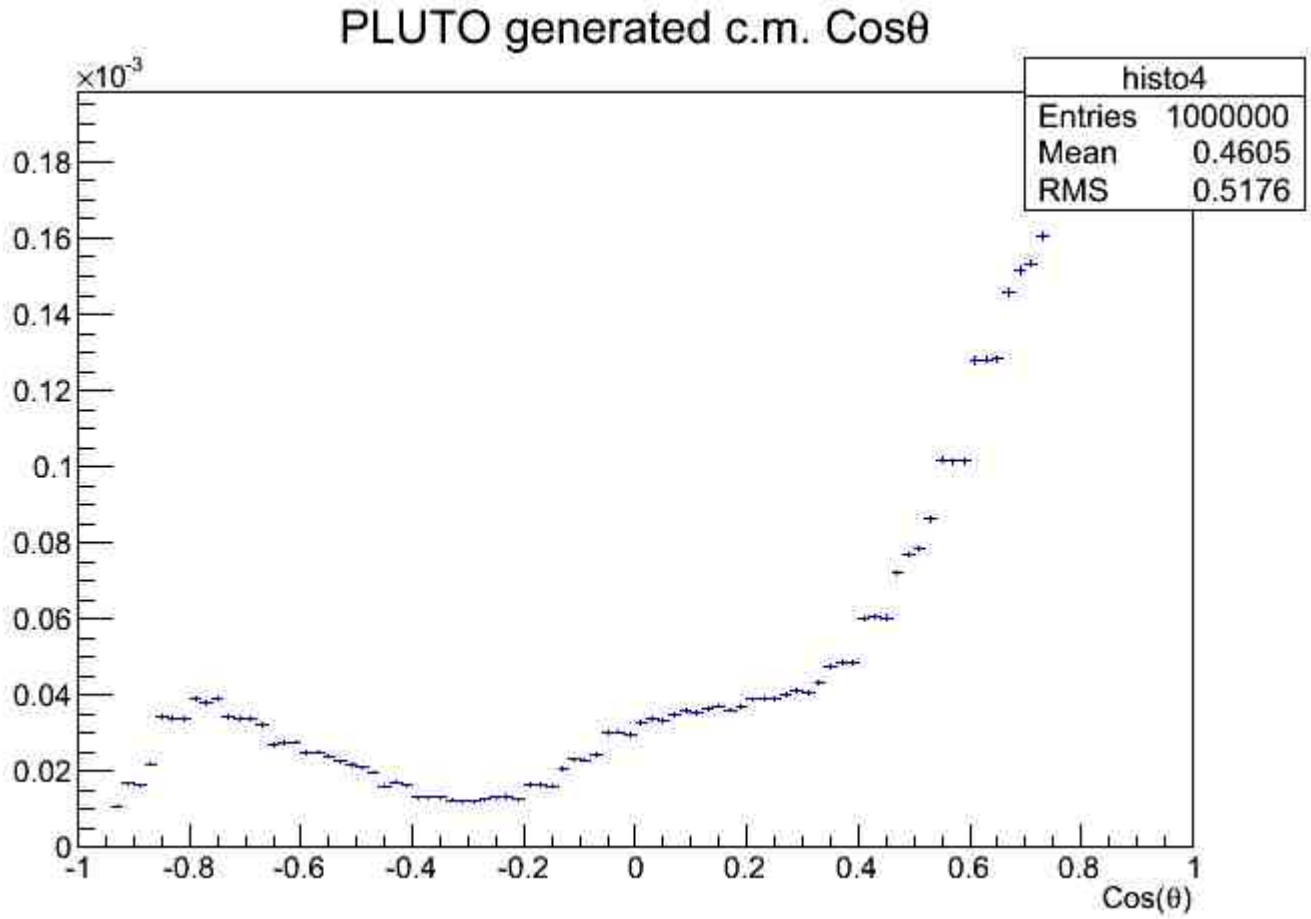
Thanks
Michael

INPUT:

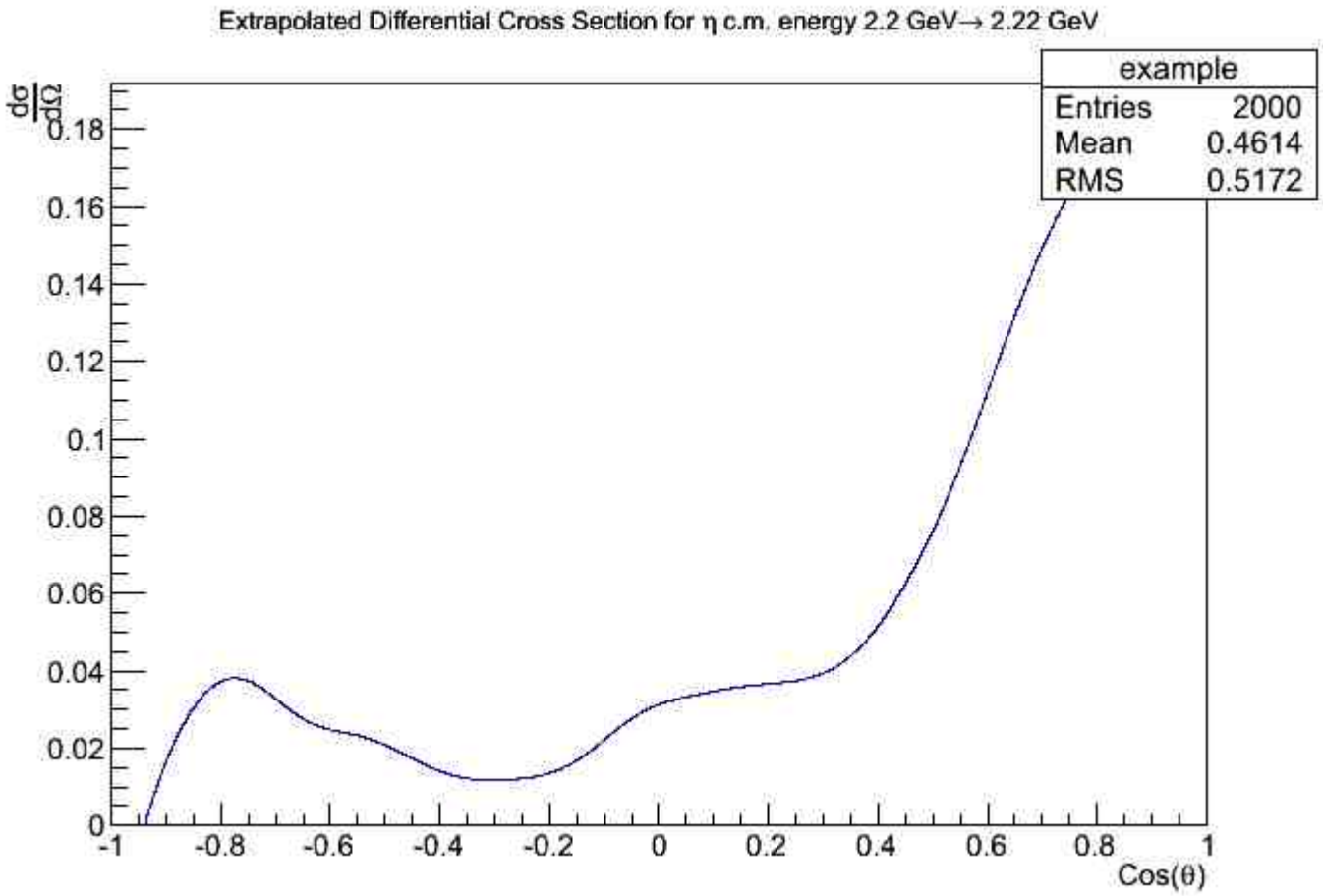
PLUTO OUTPUT:

File Attachments

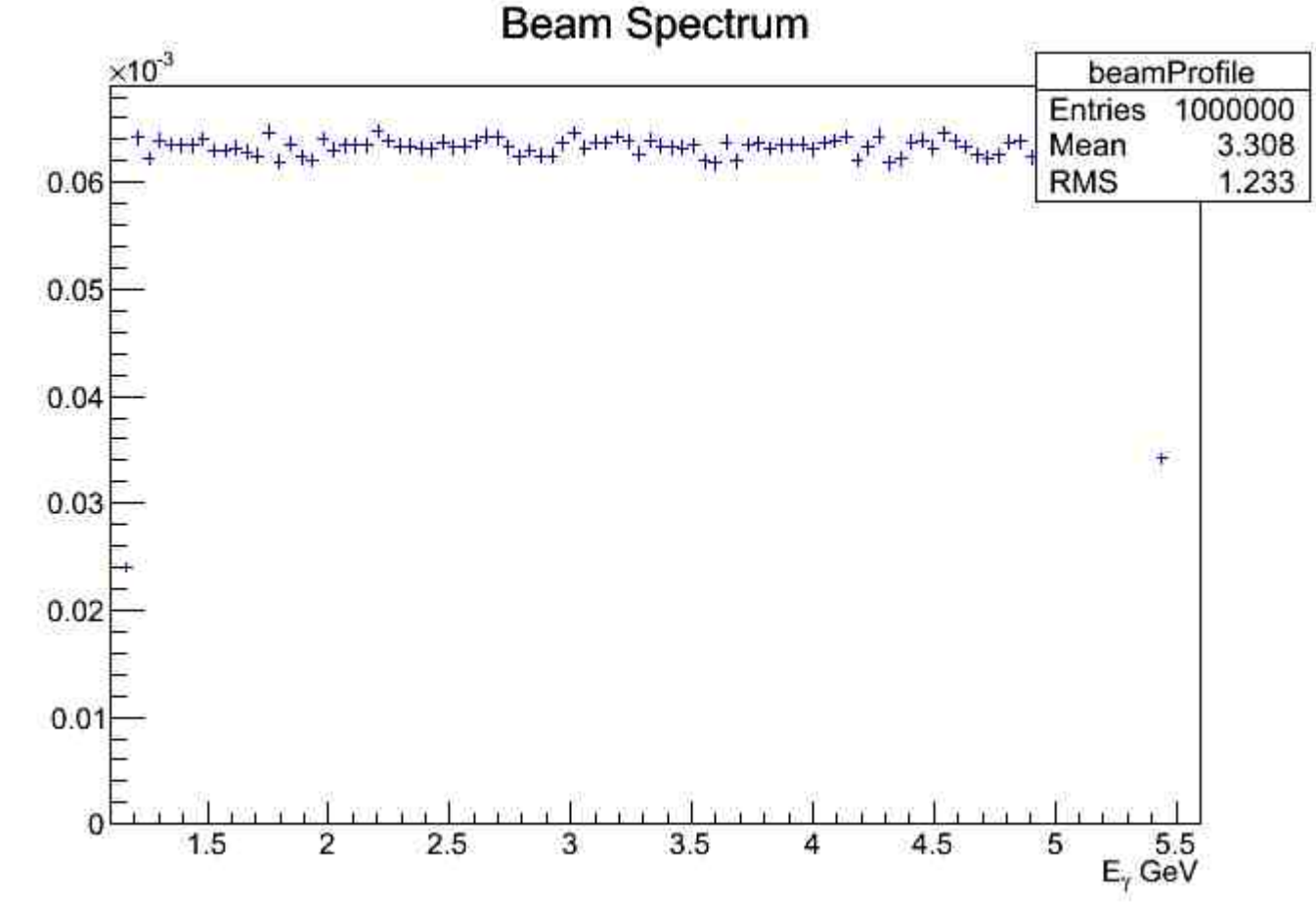
1) PLUTO_generated_cos_theta.jpeg, downloaded 1735 times



2) XSection_Interpolated.jpeg, downloaded 1745 times



3) Beam_Profile.jpeg, downloaded 1806 times



4) PLUTO_generated_cm_energy.jpeg, downloaded 1819 times