Subject: Re: Bear Smear and Cross Sections
Posted by Michael Kunkel on Wed, 15 Aug 2012 16:56:41 GMT
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I think I have located the problem

In the code attached previously, there is a section in which reads

```
for (int i=0;i<36;i++) {
 x_gp_etaval[i]*=0.001; //in GeV
 x_gp_etaval[i]+=thr;
   }
```

Which I saw in the elementary plugin. What is this thr? Threshold? Here is what this segment does

0.774 <--Before After--> 2.25972
0.824 <--Before After--> 2.30972
0.874 <--Before After--> 2.35972
0.924 <--Before After--> 2.40972
0.975 <--Before After--> 2.46072
1.025 <--Before After--> 2.51072
1.073 <--Before After--> 2.55872
1.124 <--Before After--> 2.60972
1.175 <--Before After--> 2.66072
1.225 <--Before After--> 2.71072
1.277 <--Before After--> 2.76272
1.326 <--Before After--> 2.81172
1.374 <--Before After--> 2.85972
1.429 <--Before After--> 2.91472
1.48 <--Before After--> 2.96572
1.529 <--Before After--> 3.01472
1.575 <--Before After--> 3.06072
1.626 <--Before After--> 3.11172
1.674 <--Before After--> 3.15972
1.721 <--Before After--> 3.20672
1.776 <--Before After--> 3.26172
1.829 <--Before After--> 3.31472
1.878 <--Before After--> 3.36372
1.93 <--Before After--> 3.41572
1.978 <--Before After--> 3.46372
2.025 <--Before After--> 3.51072
2.073 <--Before After--> 3.55872
2.123 <--Before After--> 3.60872
2.174 <--Before After--> 3.65972
2.225 <--Before After--> 3.71072
2.277 <--Before After--> 3.76272
2.351 <--Before After--> 3.83672
2.45 <--Before After--> 3.93572
2.55 <--Before After--> 4.03572
2.7 <--Before After--> 4.18572
2.887 <--Before After--> 4.37272

The information in which I enter into the TGraph is lab beam energy (starting from threshold) vs. cross total section obtained from eta cross section

Furthermore, the beam profile appears to be dependent on the preheating done. Initially I preheat(100), however if I raise this to preheat(5000) I see the following beam profile.

Which now makes me very confused.

I think maybe I should just wait for your 2D histogram solution you are working on.

File Attachments

1) preheat(5000).jpg, downloaded 2584 times

