Subject: Re: Different x-y resolutions
Posted by Simone Bianco on Thu, 21 Jul 2011 15:54:46 GMT
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Thanks Tobias, the constant field worked fine. Using the same parameters as before I got really similar results:

So, this should exclude effects of asymmetries in the magnetic field.

I tried to select smaller theta ranges and what I notice is that in the "forward" part everything works fine. For example here you see what I obtained (always with four pions of 1GeV/c) limiting the theta range to teh range [30,40]°:

Increasing theta the situation gets worse. This is what I obtained in the range [60,70]:

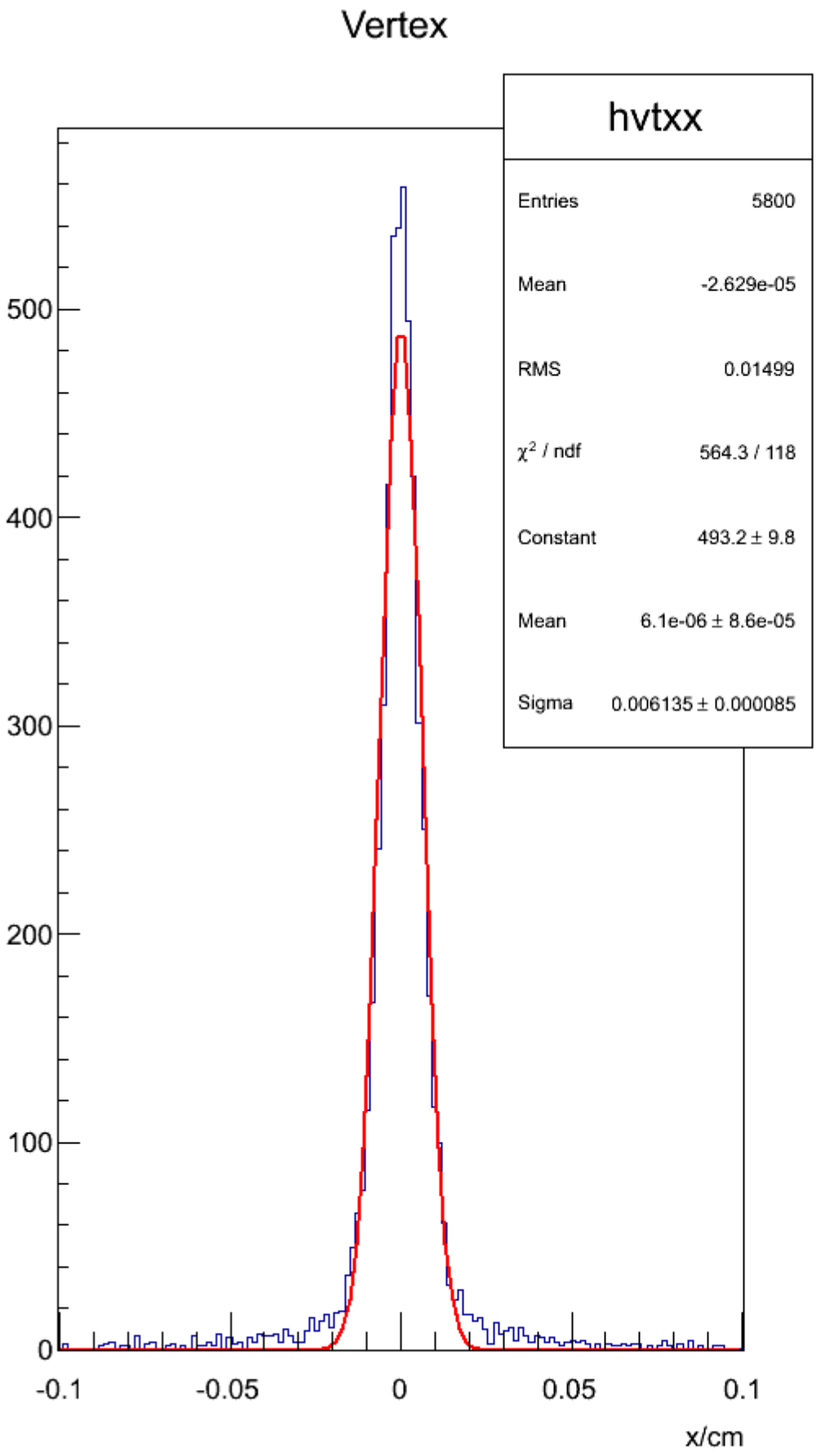
Cheers,

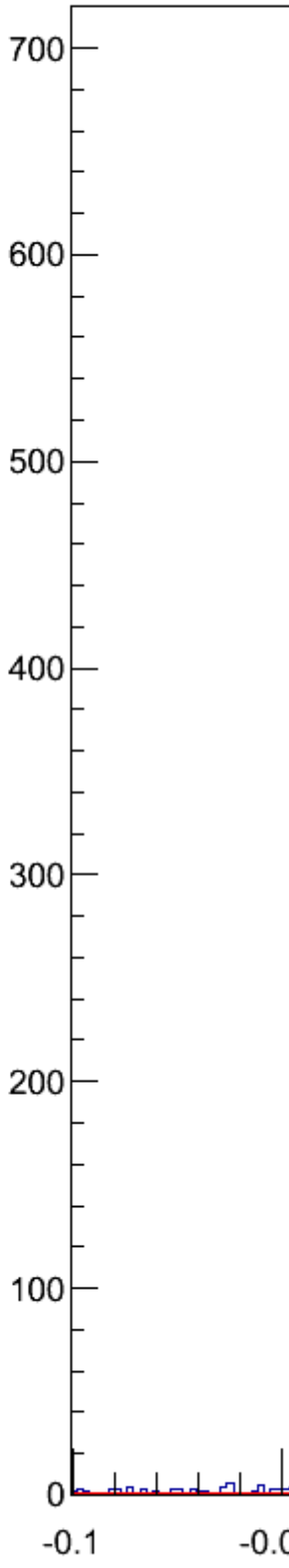
Simone

PS: all these plots were obtained using the POCA vertex finder

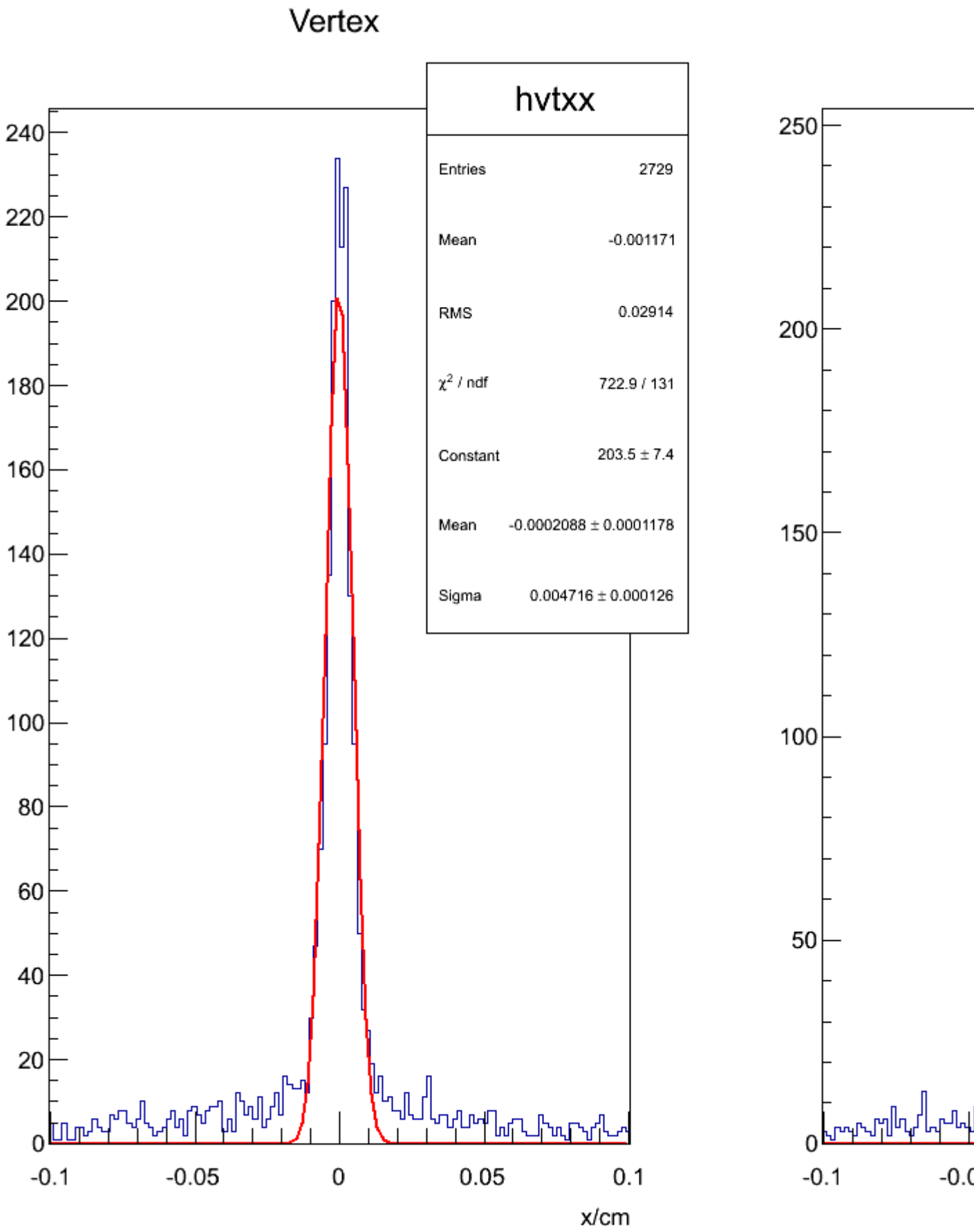
File Attachments

1) ConstField_20_140deg.png, downloaded 1363 times


Vertex
hvtxx
Entries 5800
Mean -2.629e-05
RMS 0.01499
χ² / ndf 564.3 / 118
Constant 493.2 ± 9.8
Mean 6.1e-06 ± 8.6e-05
Sigma 0.006135 ± 0.000085
500
400
300
200
100
0
-0.1
-0.05
0
0.05
0.1
x/cm


700
600
500
400
300
200
100
0
-0.1

2) ConstField_30_40deg.png, downloaded 1417 times



3) ConstField_60_70deg.png, downloaded 1262 times

