Subject: Re: Bremsstrahlung and neutrals mergeing
Posted by Elisa Fioravanti on Wed, 07 May 2014 11:43:41 GMT
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Hello Klaus,

I tried the bremsstrahlung for the simulation of the decay:
chi_cj->J/psi gamma
with J/psi->e+e-

I first selected a J/psi from e+e- candidates, and then
I did a 4C fit to the chi_cj candidates.
If I look to the probability of the fit I obtained this distribution:

with a peak at zero.

But when I simulated the same decay mode, using the same macro,
but without the bremsstrahlung, after the 4C fit I obtained this
probability distribution:

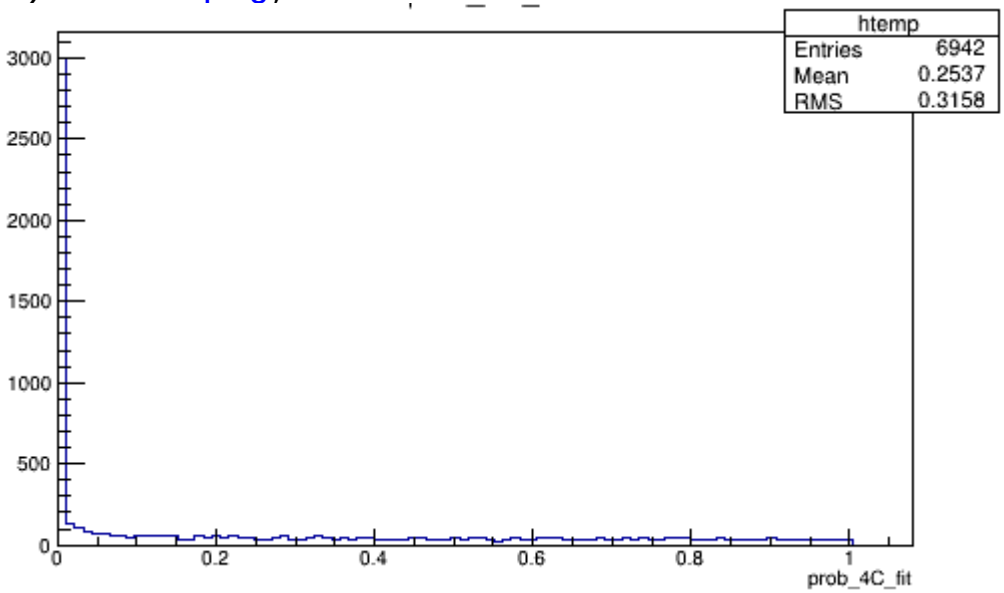
uniform distributed from 0 to 1.

Do you have an idea on what's going on?

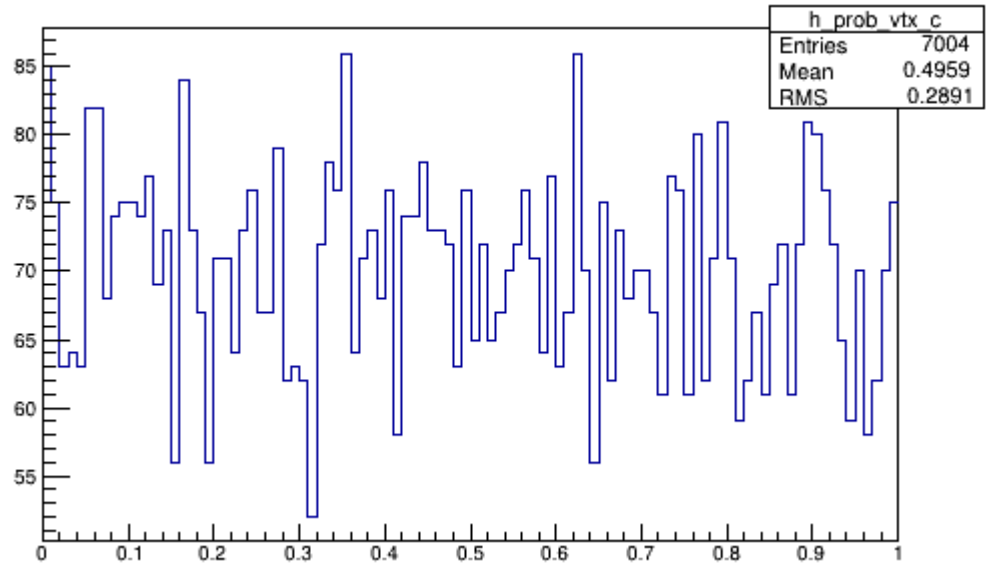
Thanks
Elisa

File Attachments

1) bremm.png, downloaded 1338 times



2) nobremm.png, downloaded 1238 times


h_prob_vtx_c
Entries 7004
Mean 0.4959
RMS 0.2891
85
80
75
70
65
60
55
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1