Subject: Re: eta_c generation with EvtGen
Posted by Dima Melnychuk on Fri, 02 Dec 2011 13:35:43 GMT
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Hi,

I have rerun eta_c reconstruction for runs 926fix and 926cufix and results are the following.

Run 926fix, efficiency 27.3% (vs 25.8% for run 926 where eta_c width was considered) sigma(eta_c)=18.4 MeV (vs 31.6 MeV for run926) and sigma(phi)=3.87 MeV (without changes).

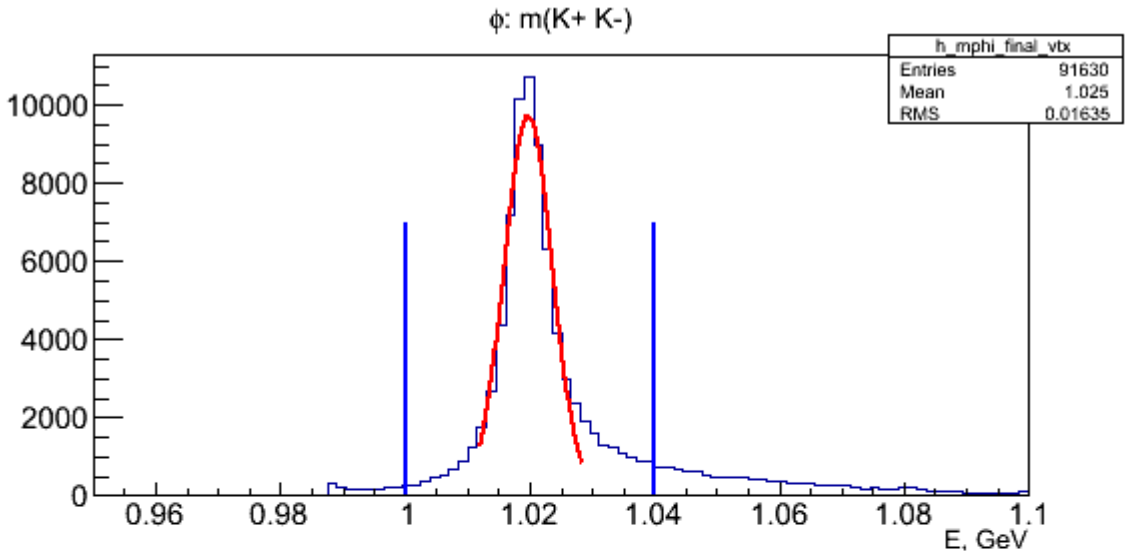
Run 926cufix with cleanup on, efficiency 19.1%, sigma(eta_c)=17.5 MeV, sigma(phi)=3.85 MeV.

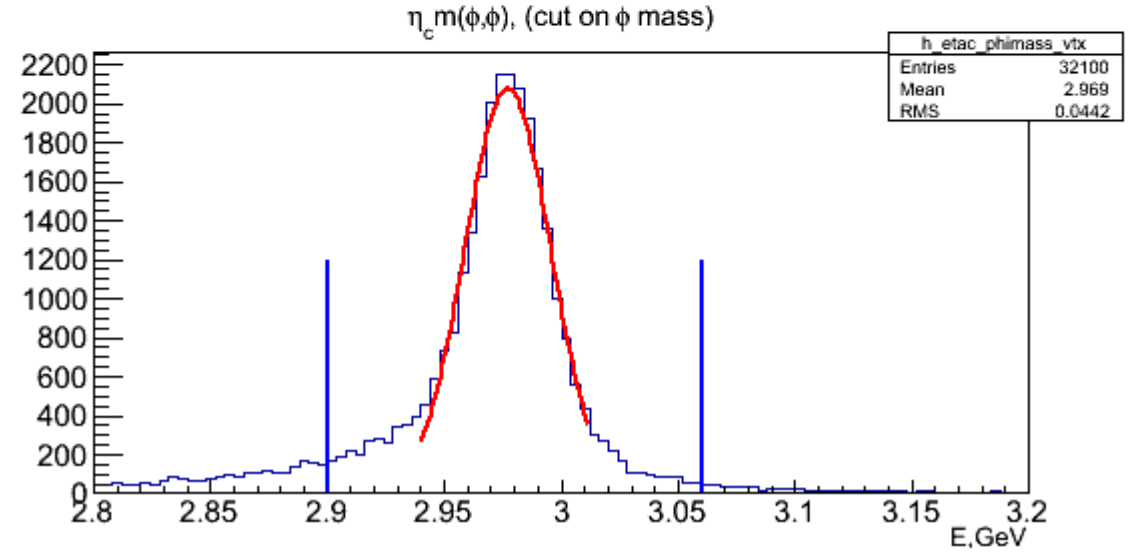
So I suppose this run can be used for mixing with background.

Dima

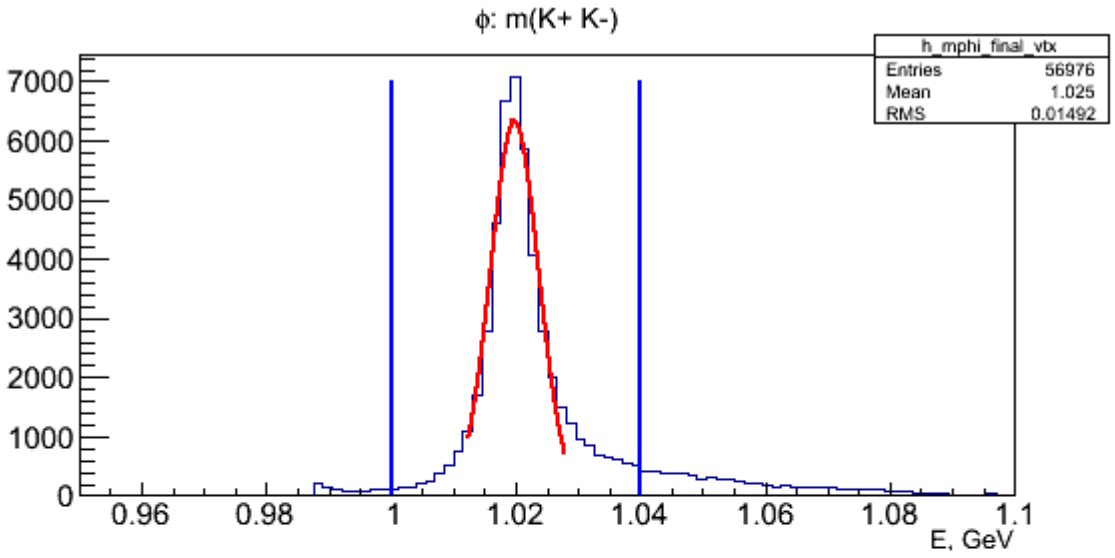
File Attachments

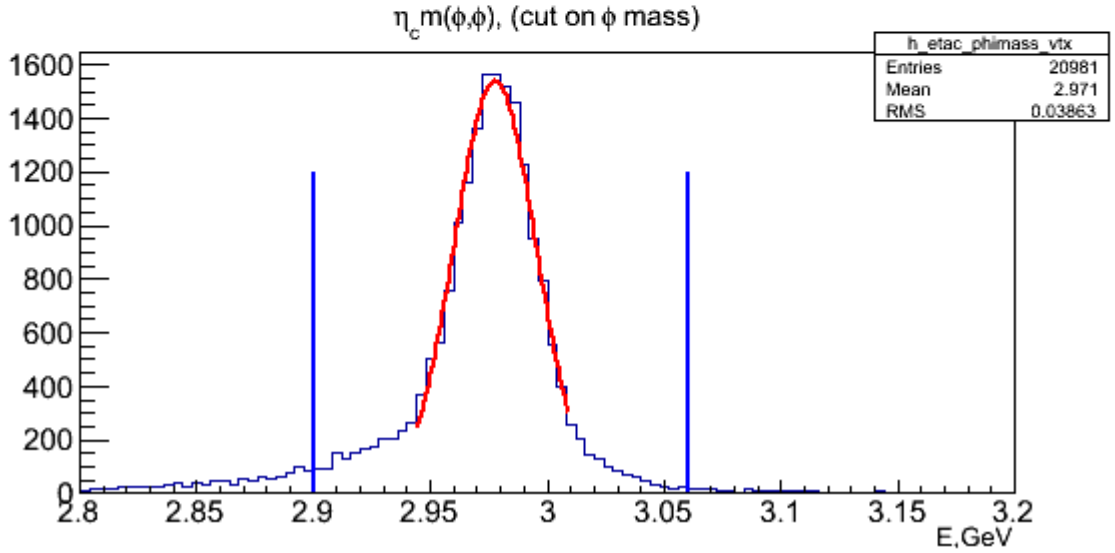
1) m_run926fix.png, downloaded 1360 times





2) m_run926cufix.png, downloaded 1503 times


ϕ: m(K+ K-)
h_mphi_final_vtx
Entries 56976
Mean 1.025
RMS 0.01492
7000
6000
5000
4000
3000
2000
1000
0
0.96
0.98
1
1.02
1.04
1.06
1.08
1.1
E, GeV


η_c m(ϕ,ϕ), (cut on ϕ mass)
h_etac_phimass_vtx
Entries 20981
Mean 2.971
RMS 0.03863
1600
1400
1200
1000
800
600
400
200
0
2.8
2.85
2.9
2.95
3
3.05
3.1
3.15
3.2
E,GeV