
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)
 $\sigma(\eta_c) = 18.4 \text{ MeV}$ (vs 31.6 MeV for run 926) and $\sigma(\phi) = 3.87 \text{ MeV}$ (without changes).

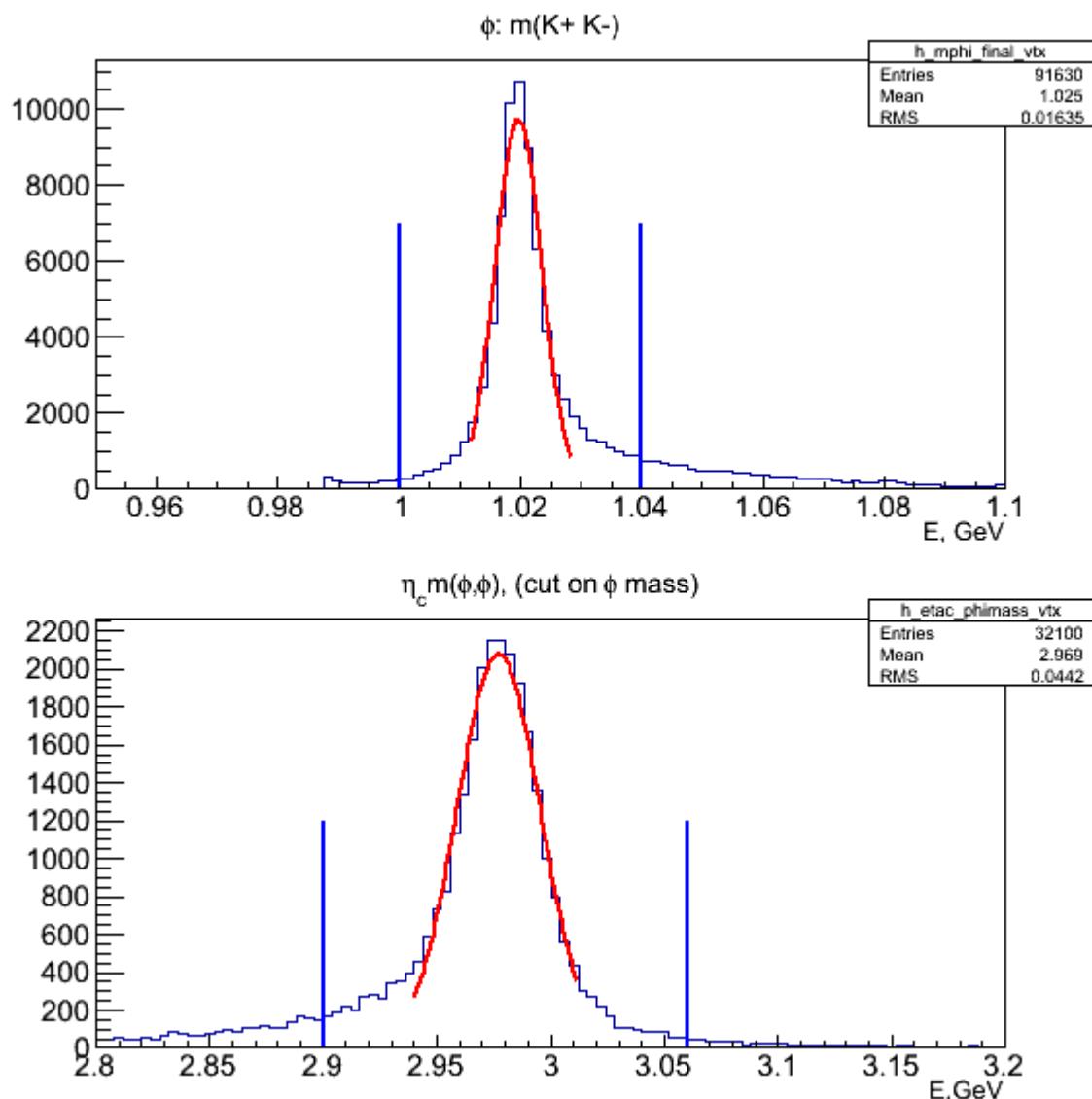
Run 926cufix with cleanup on, efficiency 19.1%, $\sigma(\eta_c) = 17.5 \text{ MeV}$, $\sigma(\phi) = 3.85 \text{ MeV}$.

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

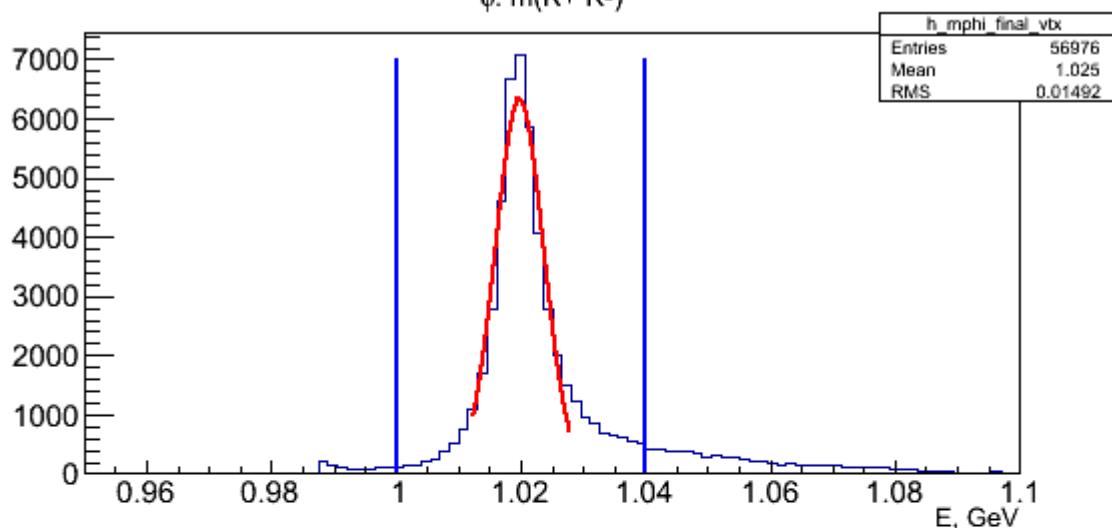
Dima

[File Attachments](#)

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- 1) [m_run926fix.png](#), downloaded 686 times



2) [m_run926cufix.png](#), downloaded 772 times

$\phi: m(K^+ K^-)$  $\eta_c m(\phi, \phi), (\text{cut on } \phi \text{ mass})$ 