

---

Subject: Re: Eta\_c efficiency

Posted by [Dima Melnychuk](#) on Tue, 29 Nov 2011 13:43:57 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

Hi,

With the latest STT reconstruction update the following results are obtained for eta\_c channel with data produced on grid.

run926 (99500 events, copy of one file (500 events) fails)  
Invariant mass distribution:

Reconstruction efficiency - 25.8%, result is good but again somehow lower than I obtained with 1000 events (30.9%)

$\sigma(\eta_c)=31.6$  MeV,  $\sigma(\phi)=3.87$  MeV

With cleanup - run926cu

Efficiency drops to 18.1%, but still is reasonable.

$\sigma(\eta_c)=28.7$  MeV,  $\sigma(\phi)=3.70$  MeV

And here are the multiplicities of charged tracks, without and with cleanup:

So I still try to understand why on grid efficiency is lower than I have locally, but otherwise data look reasonable.

Dima

---

### File Attachments

- 1) [mfinal\\_926.png](#), downloaded 249 times
  - 2) [mfinal\\_926cu.png](#), downloaded 224 times
  - 3) [n\\_charged926.png](#), downloaded 214 times
  - 4) [n\\_charged926cu.png](#), downloaded 213 times
-