
Subject: Re: eta_c reconstruction efficiency
Posted by [Gianluigi Boca](#) on Wed, 23 Nov 2011 16:59:14 GMT
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Stefano Spataro wrote on Tue, 22 November 2011 14:52I have also run 1000 eta_c events, and compared the results of the new trunk with (red) and without (blue) cleanup.

Maybe it is time to check higher statistics on the grid.

Hi,
yes, I know, there is still a small inefficiency (7%) in the TRUNK relative to the July11 version .

This again is due to some extra spurious hits, this time in the STT system.

Again it is most likely due to some more relaxed criterion in the Pattern Recognition, in the association of the of the STT hits to a found track.

Therefore I am fixing this for the time being by restoring the older stricter criterion.

The next step will be to investigate where exactly these few extra spurious hits have this negative impact (Kalman filter? Vertexing routines ? Analysis selection criteria ?).

My feeling today is that when we have an operating Deterministic Annihilating Kalman filter (which is already in place, but not the default) these cases could be overcome.

Gianluigi
