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Subject: Small changes to improve efficiency at low momentum

Posted by [StefanoSpataro](#) on Tue, 22 Jul 2014 12:43:17 GMT

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Dear all,

I did three small changes which should improve a bit the efficiency for low momentum tracks.

- a) The sttmvdgem ideal track fidner now considers only the first 25 hits, to cut curling tracks.
- b) The geane internal cut on 100MeV/c is now decreased to 5MeV/c
- c) The Pid candidates are filled starting from 50 MeV/c (before from 100 MeV/c)

It would be nice if somebody could test to check how much is the gain.

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Subject: Re: Small changes to improve efficiency at low momentum

Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 22 Jul 2014 13:37:04 GMT

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Hi Stefano,

I will try the new trunk update. In the meantime, as I cannot attend the pandaroot meeting, tomorrow, I send you one slide.

I show here a test which I performed in testing the trunk which I had used 2 months ago, and the recent trunk rev 25545, to reconstruct the missing mass of Ds- in the decay process pbarp to Ds- Ds(XXX).

In the new trunk revision, the three peaks in input are well seen; in the old revision, I got troubles.

Thank you to fix the problems with the emc and gem. Now it works pretty good!

My best, Elisabetta

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#### File Attachments

1) [Prencipe\\_22072014.pdf](#), downloaded 329 times

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Subject: Re: Small changes to improve efficiency at low momentum

Posted by [StefanoSpataro](#) on Fri, 15 May 2015 10:03:14 GMT

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The condition:

Quote:

- a) The sttmvdgem ideal track fidner now considers only the first 25 hits, to cut curling tracks.

has been removed, since it contains some logical problem.

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