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Subject: Re: Study of tracking efficiency and resolution

Posted by [donghee](#) on Fri, 12 Oct 2012 10:03:47 GMT

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Hi stefano,

I found a reason for the inefficiency of 10 degree track.

When I studied tracking performance, I produced a point particle at exactly 10 deg. It was presented in last meeting.

When I produce single track in the range 0.5 and 20 deg with 1-5 GeV momentum as a continuous spectrum,

I can see correct tracks from both spectrometer (forward and target).

The combined track in Pid session is working properly.

But at 5 deg starts dropping down the efficiency till 10 degree.

the reconstruction at 10 deg is quite inefficient due to some reasons, material effect or mainly rough connection of both tracklet in the overlap region between target and forward spectrometer.

I'm not surprising the reason for inefficiency at 10 deg at all.

I'm trying to answer now for next question about inefficiency of backward part with low momentum (~ 300 MeV/c track).

Best regards,

Donghee

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### File Attachments

1) [Forward\\_study\\_acceptance10.eps](#), downloaded 164 times

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