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Subject: Re: tracks belonging to the same MC truth track

Posted by [donghee](#) on Tue, 18 Nov 2014 19:57:16 GMT

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Hi Gianluigi,

Yes exactly, two or sometimes more than two reconstructed tracks are associated to the one MC truth track.

2-3 % of events have such kind of double(or more) tracks effect with oct14 release.

At exclusive analysis, those events doesn't affect too much for the evaluation of efficiency.

If we are doing inclusive analysis, we need to care about those events seriously, otherwise the efficiency could be biased.

How can we avoid this effect when we perform MC truth matching?

Naturally we can have some tracks, which is basically induced same origin, in the track reconstruction.

I do not have clear idea what the best solution is, either a strict clean up in the track reconstruction or specific handling of MC truth matching for such tracks.

Best wishes,

Donghee

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