
Subject: Re: Chi2 of kinematic and vertex fitters

Posted by [Elisabetta Prencipe \(2\)](#) on Tue, 03 Dec 2013 10:49:48 GMT

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Hi Stefano,

I am running my test jobs in the pandaroot rev. 22626, and I found again negative chi2 of the vertex fit (only; the mass fit constraint does not give negative chi2 in my case). The difference with the previous revision (rev 21003) is that now I get improvements: only decays where photons got involved give me few entries with negative chi2. In the previous revision (21003), I had many of them. Also, the efficiency is definitively improved in the new revision (22626): in the decay $p \bar{p}$ to $D_s D_s^{*'}(2536)^+$, $D_s^{*'}(2536)^+$ to $D^{*0} \pi^+$, I have got:

rev 21003: 21% efficiency

rev 22626: 30% efficiency

cheers, Elisabetta
