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Subject: Re: Pnd4CFitter - how to use it

Posted by [Stefano Spataro](#) on Fri, 30 Aug 2013 13:40:58 GMT

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The 4-constraints fit forces the final 4-momentum, sum of the decay products, to be exactly like the initial one.

If you have a formation experiment, i.e.  $p\bar{p} \rightarrow h_c$ , then you can use the 4C fitter since you know the  $p$  at rest and the projectile  $p\bar{p}$ , but if you have a reaction like  $p\bar{p} \rightarrow DD$  you cannot use it to force the mass of one single  $D$ , since you don't know its initial 4-momentum. You can force the  $DD$  state, but not the single  $D$ .

I suppose this is the reason why it does not work in your case.

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