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Subject: Re: eta\_c generation with EvtGen

Posted by [Dima Melnychuk](#) on Sat, 03 Dec 2011 22:35:52 GMT

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Hi Stefano,

Actually I think that preferable solution here is to put spin of pbarpSystem to 1.

In general in proton-antiproton annihilation limiting to S and P waves 6 states with different quantum numbers are possible. Particularly  $\Psi(3770)$  as  $J^{PC}=1^{--}$  state correspond to  $^3S_1$  of p-pbar system.

And in principle if we know that  $\Psi(3770)$  is produced means that annihilation took place with these quantum numbers.

So spin of pbarpSystem should be adjusted to the the spin of particle we want to produced. Of course it's a little bit inconvenient to edit evt.pdl every time for this purpose but I do not know another solution at the moment.

Dima

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