Subject: Re: invariant mass
Posted by Elisabetta Prencipe (2) on Tue, 25 Mar 2014 09:43:25 GMT
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Dear Foram Shah,

just one comment more to the Stefano reply, to make your life easier with PandaRoot simulations: if you are using the macros of the tutorial, what basically you have to change is the beam momentum (beginning of the simulation macro: make sure it is properly set up for the production of the X(3872)), and you should change also the file.dec where you set up the decay file of your interest (always in the simulation macro). I assume here you will use EvtGen as MC generator. Then, the digi-, rec-, pid-, macros can be run just like they are in the tutorial. Of course, you have to change the analysis macro of the tutorial: it is right now set up for the example provided in the page that Stefano pointed you: ppbar ---> psi--->Jpsi pi+ pi-.
If you wish to try ppbar ---> X(3872) ---> Jpsi pi+ pi-, it is not so much change, in the end. The analysis macro shows you how to calculate invariant mass, momentum, how to use the fitters.

cheers, Elisabetta