
Subject: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [Alexey Luchinsky](#) on Mon, 23 Nov 2015 16:21:19 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Colleagues,

New EvtGen models for for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi are added to the repository

Alexey

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [StefanoSpataro](#) on Mon, 23 Nov 2015 16:26:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

Using which model?

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [Alexey Luchinsky](#) on Mon, 23 Nov 2015 16:30:02 GMT

[View Forum Message](#) <> [Reply to Message](#)

Sorry,

Model names are PP_X_PsiRho_amp and PP_X_PsiOmega_amp. Typical decay files:

Decay pbarpSystem1

1.0 J/psi pi+ pi- PP_X_PsiRho_amp;

Enddecay

End

and

Decay pbarpSystem1

1.0 J/psi pi+ pi- pi0 PP_X_PsiOmega_amp;

Enddecay

End

Alexey

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [StefanoSpataro](#) on Mon, 23 Nov 2015 16:31:58 GMT

[View Forum Message](#) <> [Reply to Message](#)

I mean, which distribution models are used in such new EvtGen model? Taking from experimental angular distributions, or from some theory?

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [Alexey Luchinsky](#) on Mon, 23 Nov 2015 16:35:34 GMT

[View Forum Message](#) <> [Reply to Message](#)

I've used theoretical model described in

C.Hanhart et al, Phys.Rev.D76:034007,2007

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [Ralf Kliemt](#) on Tue, 24 Nov 2015 11:01:30 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Alexey,

I provided a fix for some compiling issue. Please re-check your models i.e. the constant numbers.

Rev. 28742

Cheers!

Ralf

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [Stefano Spataro](#) on Tue, 24 Nov 2015 14:04:12 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Alexey,

could you please write some information about in the corresponding wiki page, such as in ChiGen case?

Thanks in advance.

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872) -> psi pi pi pi

Posted by [Alexey Luchinsky](#) on Tue, 24 Nov 2015 14:05:41 GMT

[View Forum Message](#) <> [Reply to Message](#)

No problem, I'll try

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)
-> psi pi pi pi
Posted by [Alexey Luchinsky](#) on Tue, 24 Nov 2015 15:01:48 GMT
[View Forum Message](#) <> [Reply to Message](#)

Everything works fine.

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)
-> psi pi pi pi
Posted by [Alexey Luchinsky](#) on Tue, 24 Nov 2015 19:40:06 GMT
[View Forum Message](#) <> [Reply to Message](#)

Dear Stefano,

It turns out that I can't create a Wiki page, Access Denied.

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)
-> psi pi pi pi
Posted by [StefanoSpataro](#) on Tue, 24 Nov 2015 22:37:09 GMT
[View Forum Message](#) <> [Reply to Message](#)

What's your wiki username?

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)
-> psi pi pi pi
Posted by [Alexey Luchinsky](#) on Tue, 24 Nov 2015 22:41:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

AlexeyLuchinsky

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)
-> psi pi pi pi
Posted by [StefanoSpataro](#) on Tue, 24 Nov 2015 22:43:45 GMT
[View Forum Message](#) <> [Reply to Message](#)

Now you can

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)

-> psi pi pi pi

Posted by [Alexey Luchinsky](#) on Mon, 30 Nov 2015 23:07:24 GMT

[View Forum Message](#) <> [Reply to Message](#)

Models are changed slightly (renamed, max prob fixed)

Subject: Re: New EvtGen models for PP -> X(3872) -> psi pi pi, PP -> X(3872)

-> psi pi pi pi

Posted by [Alexey Luchinsky](#) on Tue, 01 Dec 2015 20:30:21 GMT

[View Forum Message](#) <> [Reply to Message](#)

Dear Stefano,

I've added a page to Wiki, see

<https://panda-wiki.gsi.de/foswiki/bin/view/Computing/EvtPpXPsiPiPi>
