

Subject: [FIXED] Possibly a bug in MC Truth Forwarding (?) - no bug after all
[SOLVED]

Posted by [MartinJGaluska](#) on Mon, 18 Jun 2012 09:31:28 GMT

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Dear all,

I have just noticed a change in MCTrack of points(...).root and was wondering if that might be a bug.

I am running macros from macro/pid in my simulation of X(3872) -> J/psi pi⁺ pi⁻ with the corrected VVpi pi decay model on PandaRoot revision 15615 (Scientific Linux CERN SLC release 5.5 (Boron), 64 bit, fairroot: jan12).

When I run `cbmsim->Show(0)` on a `points(_...).root` file which was created using PandaRoot Revision: 15581 (or before, I am not 100% sure which one I used in March, but I can figure it out if it is of any relevance) and look at `MCTrack.fPDgCode`, I get (for example):

Quote:

```
MCTrack.fPdgCode = 30443, 443, 211, -211, -11, 11, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22
```

When I do the same on a points(...).root file which was created with PandaRoot Revision: 15615 I get:

Quote:

```
MCTrack.fPdgCode = 211, -211, -11, 11, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22, 22
```

i.e. the $\psi(2S)$ (which I use as a template for $X(3872)$) and the $J\psi$ are not listed any more. That is not a problem for me, but I was wondering whether this was an intentional or accidental change in the code.

Subject: Re: Possibly a bug in MC Truth Forwarding (?)

Posted by [Stefano Spataro](#) on Mon, 18 Jun 2012 09:39:07 GMT

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Are you sure you are using exactly the same simulation macro? I think that in the line:

```
EvtGen->SetStoreTree(kFALSE);
```

you were using kTRUE for the old macro, kFALSE (or no line) for the new macro. In kTRUE case you are storing in MCTrack also mother particles.

Could you please check?

Subject: Re: Possibly a bug in MC Truth Forwarding (?)

Posted by [MartinJGaluska](#) on Mon, 18 Jun 2012 10:07:47 GMT

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Thank you very much, Stefano,

you are absolutely right. I am sorry about that!
