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Subject: Re: Problem with Xi(1820) in EvtGen

Posted by [Elisabetta Prencipe \(2\)](#) on Sun, 01 Nov 2015 16:03:35 GMT

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Hi Stefano,

Jenny and I have been thinking what would go wrong in that decay model. As apparently it looked everything correct, we have contacted the EvtGen developers. Effectively, it looks there is a bug in the model.

Briefly, the problem occur at the level of the class  
src/EvtGenBase/EvtMassAmp.cpp::amplitude().

A quick fix suggested by the authors is the following: to comment out

```
if ( _vb->L() != 0 ) {amp=0.;}
```

for the birth vertex factor (\_vb) on line 78 in src/EvtGenBase/EvtMassAmp.cpp::amplitude() for the

case when the sum of the pole masses of the daughters is less than the parent pole mass.

Maybe Jenny can give a more detailed update during the next seevogh meeting. Now it looks working correctly.

cheers, Elisabetta

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