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Subject: Problem with Xi(1820) in EvtGen  
Posted by [Jennifer Pütz](#) on Wed, 14 Oct 2015 11:49:13 GMT  
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Hi everyone,

I have a problem with EvtGen.

```
add p Particle Xi(1820)- 23314 1.8230000e+00 2.4000000e-02 2.0000000e-01 -3 3
0.0000000e+00 23314
```

Xi(1820)- has a mass of 1.823 GeV/c<sup>2</sup> and spin 3/2.  
But if I run EvtGen the mass distribution of Xi(1820)- has a rectangular shape.

If I change the spin to 1/2 or 5/2 the mass distribution is looking fine (see plots below).

For other particles with spin 3/2 EvtGen is running fine.

I wrote already to the person who is responsible for the mass generation in EvtGen. But he is not answering.

Maybe there is someone of you having an idea how to fix this.

Cheers,

Jenny

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I am using:

PandaROOT: trunk rev. 28555

FairSoft: mar15

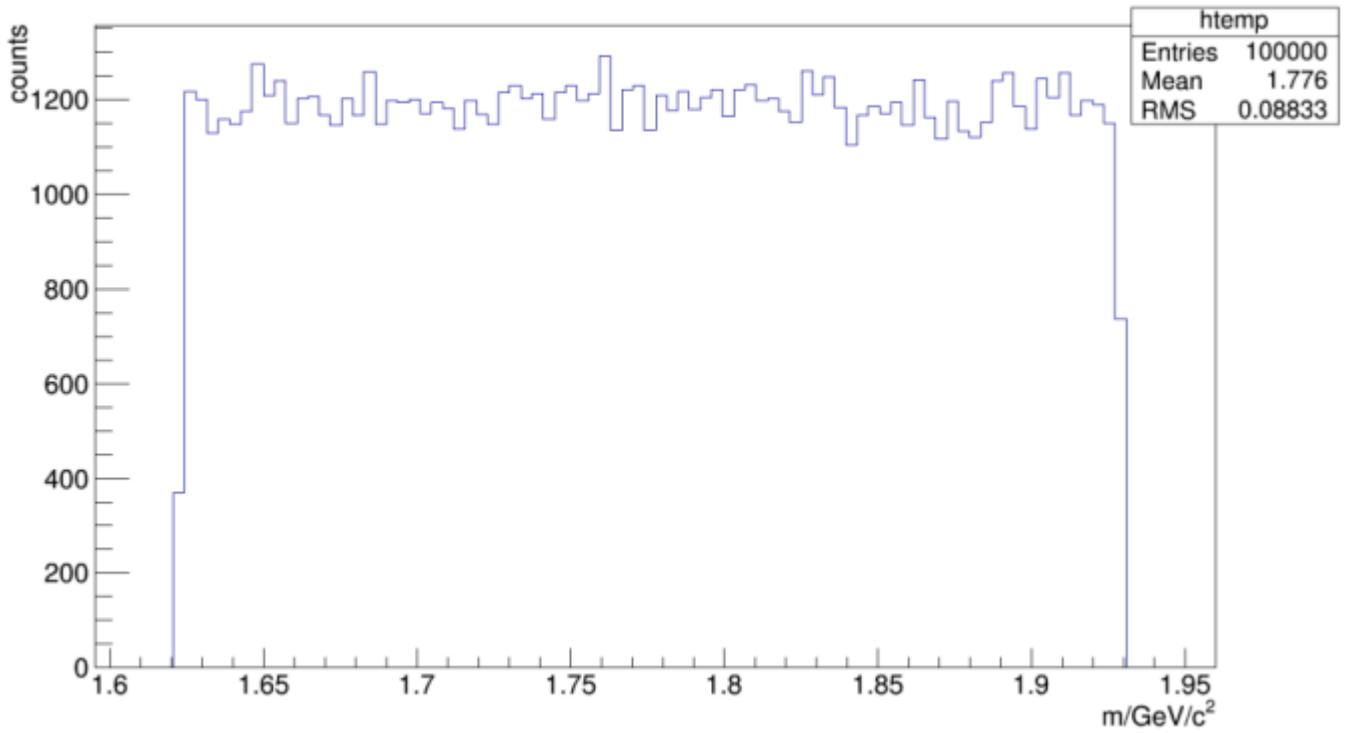
FairRoot: v-15.03a

### File Attachments

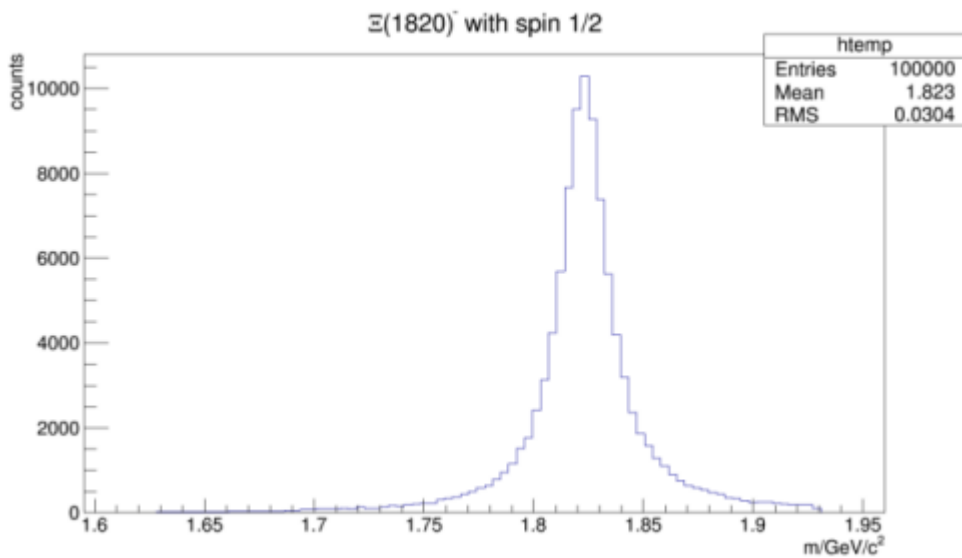
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1) [XiMinus1820\\_Spin\\_3half.png](#), downloaded 975 times

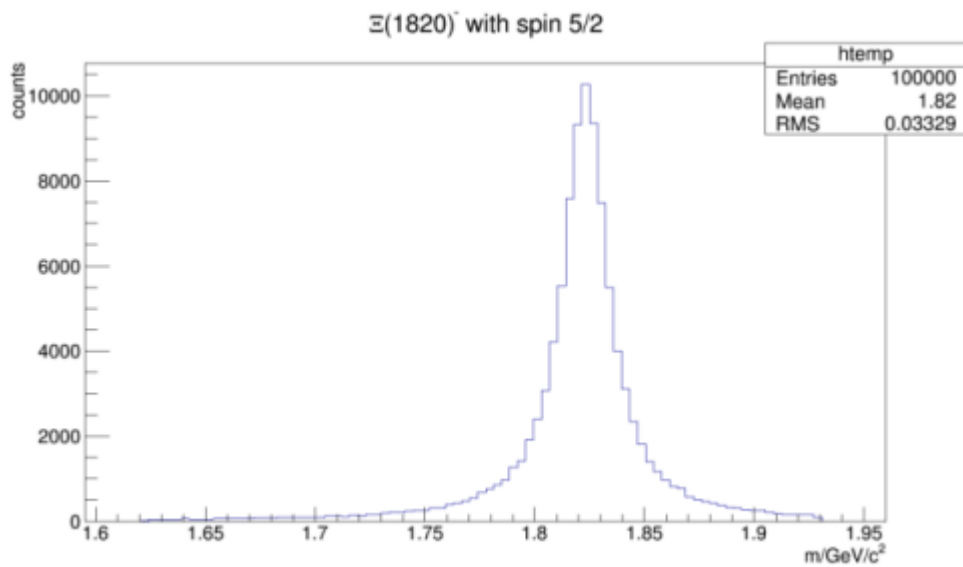
$\Xi(1820)^-$  with spin 3/2



2) [XiMinus1820\\_Spin\\_1half.png](#), downloaded 859 times



3) [XiMinus1820\\_Spin\\_5half.png](#), downloaded 975 times



4) [evt.pdl](#), downloaded 448 times

5) [XiMinus\\_1820\\_lambda0\\_K.dec](#), downloaded 436 times

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