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Subject: Problems with PARTWAVE Model of EvtGen  
Posted by [Jennifer Pütz](#) on Tue, 25 Aug 2015 14:44:29 GMT  
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Hi everyone,

is there one of you who worked already with the PARTWAVE model of EvtGen?  
I want to use it for the decay of  $\text{Xi}(1820) \rightarrow \text{Lambda}0 + \text{K}^-$  with  $l=2$

For this I extended the evt.pdl file with the line:

```
add p Particle Xi(1820)- 23314 1.8230000e+00 2.4000000e-02 5.0000000e-03 -3 3
0.0000000e+00 0
```

As decay file I use the attached Dec-file. I set the decay model to PARTWAVE 0.0 0.0 0.0 0.0 1.0 0.0 like described in the documentation.

But if I run the simulation macro the following message appears and the macro stops.

```
EvtGen:Mixing type integer set to 1
EvtGen:Done initializing EvtGen
EvtGen:In readDecayFile,
reading:/private/puetz/mysimulations/analysis/XiMinus_1820_lambda0_K.dec
EvtGen:As requested, PHOTOS will be turned off.
EvtGen:PARTWAVE generator expected
EvtGen:4
EvtGen: arguments but found:6
Xi(1820)- -> Lambda0 K- (PARTWAVE)
EvtGen:Will terminate execution!
```

With the example file  
trunk/pgenerators/EvtGen/EvtGen/R01-03-00/test/exampleFiles/PARTWAVE.DEC the  
simulation macro is working fine.

If I reduce the number of arguments to PARTWAVE 0.0 0.0 1.0 0.0 the simulation is running  
without any error. I am not sure if it is correct to use it this way.

Can someone help me?

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I'm using:

```
FairSoft: mar15
FairRoot: v-15.03a
PandaRoot: trunk Rev. 28039
```

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Best,

Jenny

### File Attachments

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- 1) [XiMinus\\_1820\\_lambda0\\_K.dec](#), downloaded 449 times
  - 2) [evt.pdl](#), downloaded 414 times
  - 3) [sim\\_complete.C](#), downloaded 401 times
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