
Subject: Problem with implementing new decay models in EvtGen

Posted by [Albrecht Gillitzer](#) on Wed, 22 Apr 2015 06:41:18 GMT

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Hi experts,

I want to implement 2 new decay models in EvtGen for pbar + d collisions ("EvtDeuteronDeltaDelta" and "EvtPbarDelta2PiPi") for which I copied the existing and working module "EvtDeuteronSpectator". I added both new decay models in CMakeLists.txt and in EvtModelReg.cpp just as for the other decay models.

Both modules are compiled without errors eventually but now I am getting the error message:

...

...

[36%] Built target EvtGenExternal

Linking CXX executable ../../bin/evtgen_dalitz

../../lib/libEvtGen.so.0.0.0: undefined reference to `vtable for EvtDeuteronDeltaDelta'

../../lib/libEvtGen.so.0.0.0: undefined reference to `vtable for EvtPbarDelta2PiPi'

collect2: error: ld returned 1 exit status

make[2]: *** [bin/evtgen_dalitz] Error 1

make[1]: *** [pgenerators/EvtGen/EvtGen/CMakeFiles/evt_dalitz.dir/all] Error 2

make: *** [all] Error 2

What does "vtable" mean? Did I miss any required modification?

I didn't change anything related to evtgen_dalitz (???), why am I getting an error there?

Hoping for your help,

Albrecht

Subject: Re: Problem with implementing new decay models in EvtGen

Posted by [Stefano Spataro](#) on Wed, 22 Apr 2015 07:14:28 GMT

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Could you please attach the files so that I can try?

Subject: Re: Problem with implementing new decay models in EvtGen

Posted by [Stefan Pflueger](#) on Wed, 22 Apr 2015 08:20:44 GMT

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Hello,

without the source code its difficult to make precise statement. The message itself means that inside the libEvtGen.so shared library there is no definition of the virtual functions EvtDeuteronDeltaDelta and EvtPbarDelta2PiPi. Since you added your decay modes to this library it will generate this error every time this library is linked on the build process of an application. Are the virtual destructors of the EvtDeuteronDeltaDelta and EvtPbarDelta2PiPi classes defined? So something like this should be in the source file:

```
EvtDeuteronDeltaDelta::~~EvtDeuteronDeltaDelta() {
```

}

Best regards,

Stefan

Subject: Re: Problem with implementing new decay models in EvtGen

Posted by [Albrecht Gillitzer](#) on Wed, 22 Apr 2015 11:50:26 GMT

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Yes, you are right!

It seems I've deleted the lines defining the virtual destructors by mistake. Now it (compiling and linking) works. Whether it does the right thing is another question (which will keep me busy for some time).

Thanks a lot, best regards,
Albrecht
