# RHN analysis

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◉ Generator is under revising

There were two fixes since last week.

Hopefully almost there

Error message

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| Advisory warning type 4 given after      3 PYEXEC calls:<br>   (PYDECY:) caught in loop for decay channel 122<br>Warning .. JSFHadronizer::Fragmentation<br>Possible error in PYEXEC detected. MSTU(23)=0 MSTU(24)=0 MSTU(28)=4 This event will be skipped. |

◉ Tau decay issue

Reminder :

- I got a segmentation error when executing Spring (sim.C).

- I use JSFHadronizer.Type:4 (Generalized version)

➡ Start investigating

Advisory warning type 4 given after     3 PYEXEC calls:
   (PYDECY:) caught in loop for decay channel 122
Warning .. JSFHadronizer::Fragmentation
Possible error in PYEXEC detected. MSTU(23)=0 MSTU(24)=0 MSTU(28)=4 This event will be skipped.

0 indicating no problem (guessing from the source code)

MSTU(28)=4 means "problem is caught in an infinite loop."

So Hadronizer decided to skip this event. (—> Does this indicating problem? or Is this normal?)

After some investigation, I found that a flag, namely "nret", tells the following processes the Hadronizer status code (e.g. skip) in some hadronizer methods. But in the HadronizeG method, nret is not set even when to skip events.
This seems to be the reason I got segmentation error. The following StdHepWriter tried to run even for the event that Hadronizer gave up .

When I set nret to be -1 (as the other hadronize methods do), such events were skipped correctly and I was able to process successfully.

I had 3 skipped event in 100 events. Is this something likely happened?