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Subject: Re: Problem with mass constraint fit for two gamma  
Posted by [Stefano Spataro](#) on Sun, 06 Jul 2014 04:09:50 GMT  
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Before starting to calculate matrices, if I were in you I would check first the actual code.

First, is the information stored in the neutral candidate correct? Or is maybe the error matrix somehow bugged? Maybe something in the initialization went wrong? When I launch a pid macro I can see the following error:

```
-I- FairRunTimeDB::InitContainer() PndEmcErrorMatrixPar  
[ERROR ] init() PndEmcErrorMatrixPar not initialized
```

I could suspect the par is not properly loaded.

Then, if I launch the photon simulation I can see fCov[15] is not set (it is at zero) while fErrP7[28] has strange numbers, also negative (-30?). If I do GetErrorP7() I obtain something at  $10^6$ !

Are we sure the correct data members are properly filled? Which variables are needed really for the kinematic fitters? Maybe we are just filling the wrong thing, or maybe we are filling it in the wrong way (i.e. position inverted with momentum, mass at the beginning and not at the end, the usual stuff).

Could you please someone do such checks?