Subject: Re: Problem with mass constraint fit for two gamma Posted by Dima Melnychuk on Wed, 02 Jul 2014 10:26:50 GMT View Forum Message <> Reply to Message

Hi,

It's pity that it does not help, i.e. usage of emc\_error\_matrix\_1.root instead of emc\_error\_matrix\_default.root.

Comment to Stefano, that emc\_error\_matrix\_1.root was calculated for geometry which is different from current only for forward endcap and modification in reconstruction code should not be (?) relevant for this case.

Comment to Donghee

> It means that in fast simulation the error matrix "emc\_error\_matrix\_1.root" has been accessed correctly but in full simulation old parameterization emc\_error\_matrix\_default.root was used up to now.

No, in fast simuilation the error matrices were calculated/parametrized independently.

> Did you make parametrizations for Barrel, Forward endcap, Backward endcap, forward EMC, all 4 parts separately?

There is a separate parametrization for each EMC part but I calculated them in one macro.

But the conclusion is that error matrices should be recalculated at least for modified forward endcap, but parametrization/fit should be checked anyway, since I do not suppose that only forward endcap introduces problems.

So it makes sense to start with some QA macro to look for pull distribution for pi0 before/after 4C-fit and only later to recalculate error matrices.

Dima

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