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Subject: Re: Problems with photon reconstruction in pandaroot  
Posted by [Elisabetta Prencipe \(2\)](#) on Thu, 05 Sep 2013 09:43:37 GMT  
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Dear Klaus,

I do not use any mass cut when I ask for truth matched values of the particle, and I guess it is correct like so. Whci code is crashing only because the mass cut around the invariant mass of 2 photons is larger that 20 MeV/c<sup>2</sup>? None.

The mass selector which you have seen in my macro is there, at the end of the `ftm_block`, but it is not used; it is there just because there was much more in that macro, but I gave in the forum the easiest version. It was used just BEFORE and not AFTER teh vertex fit of the various  $\pi^0$ ,  $D_s^*$  was done. Clearly it is not possible in this conditions to apply any fitter. You would not get neither one entry before the memory leak stops your job. You can try yourself. Even if I apply a mass cut of +/- 20 to the invariant mass of the first 2 photons, it is absolutely non-influent on the memory leak that is created. You can try yourself.

In addition, even if I apply any cut on energy, momentum, whatever in that macro, it is not going over 10 events. Even more: is you try to set up additional cuts in that macro: the memory leak occurs at the event 5 and not 10.

Would we understand that here we got a problem? It is not possible to reconstruct in pandaroot (my personal experience) channels where more than 2 photons are involved. Please, try yourself and you will see.

Pandaroot does not work fine with neutrals.

Thanks for your feedback,  
Elisabetta

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