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Subject: Re: MC-truth match in a 7-photon final state  
Posted by [Christian Will](#) on Tue, 02 Oct 2018 12:05:42 GMT  
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Ok, just to make sure I understand what you're saying:

If the MC-match of my particle of interest is not correct, I iterate through all 7 gammas and check if they are actually a  $e^+$  or  $e^-$  according to MC. If yes, I walk the decay tree up starting from this particle and check if at some point a mother particle is a gamma of my original decay tree.

Also, a follow-up question which came to my mind: which MC-id does a candidate receive that is reconstructed as one particle but actually consists of two particles which cannot be resolved?

E.g. a gamma as reconstructed particle in the EMC which was actually a high-momentum  $e^+e^-$  pair (without tracks).

Thanks so far,  
Christian

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