
Subject: Neutral candidate in EMC

Posted by [donghee](#) on Mon, 05 May 2014 11:39:45 GMT

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Hi Klaus,

As Roland pointed out, resolution of pi0 candidates are a little bit different between full and fast sim.

I am trying to decrease my resolution of pi0 via some parameters in EMC.

I assume that the resolution of photon with EMC can be controlled by 4 dedicated values.

Quote:

```
_aPar=4.52495e-3;  
_bPar=2.9539e-3;  
_cPar=7.7596e-3;  
_resFactor = 0.25;
```

Are there other sophisticated options in the EMC part, which I have to care for the resolution of neutral candidate?

Best wishes,
Donghee

Subject: Re: Neutral candidate in EMC

Posted by [Klaus Götzen](#) on Tue, 06 May 2014 11:52:23 GMT

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Hi Donghee,

indeed the EMC is parametrized by this set of parameters. Best is to take a look what kind of function it is and check the shape before you modify the parameters. Concerning the angular resolution in theta and phi, there is also a resolution factor (motivated geometrically) called resFactor, which is set to 0.25 as default. This could be increased as well to worsen the resolution.

Best,
Klaus
