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Subject: Re: Vertex Fitter in Fast simulation  
Posted by [Ralf Kliemt](#) on Tue, 22 Apr 2014 14:16:10 GMT  
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Hi,

I second the opinion that in the EMCs shall be only dE, because for neutrals the momentum is then calculated in the smearing function.

Furthermore I checked that in no detector class of the fastsim momentum and energy smearing are used simultaneously. So for the purpose of the neutrals covariance I check for the charge and use a momentum-smearing based cov for charged particles and an energy-smearing based cov for neutrals.

I still get reasonable pulls for the final state articles in the standard pion/electron sample from the scrut/ folder. Using the macros above, I find good pulls for the gammas, too. The pulls for the Eta and your 4C fit look good, too.

Less problems.

Now one issue lies with the energies of charged Kaons and I still have to understand that.  
More Problems.

Cheers  
Ralf