
Subject: Re: Energy correction for gammas
Posted by [Bertram Kopf](#) on Mon, 01 Dec 2008 12:39:54 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi Dima,

thanks for checking the emc correction in the PandaRoot software. The results - at least for the TS EMC with VM G4 - look reasonable to me. As far as I know Jan corrected the energies to the mean value and this seems to match more or less well. The correction for the shasklyk calorimeter cannot be reproduced perfectly but I think one can also use it as a work around for the PB gamma gamma studies.

This would require that Irina uses VM G4 as simulation engine together with the correction from the BaBar like software.

I think the following general things have to be done in the near future:

1. the VM G3 results (especially for the shashlyk calorimeter) look very strange and - in case that one would also make use of VM G3 - it is necessary to fix it.
2. To implement a proper calibration. A quick solution would be to calibrate it with mc truth informations. For a long term project one should get rid of the mc truth calibration and to replace it by a more realistic one, e.g. based on DPM events (pi0-, eta- calibration and maybe also calibration with electrons).
3. In case that different simulation engines should be supported it is necessary to calibrate the EMC separately for all the supported engines (VM G3, VM G4, fluka, etc.).

Best regards,
Bertram.
