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Subject: An idea for EMC Error matix

Posted by [donghee](#) on Thu, 17 Jul 2014 22:25:30 GMT

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Hi all,

We estimate EMC error matrix from raw energy and position. This is standard way.

But this raw information from EMC cluster are calibrated later on, and used in the analysis level.

we can also estimate error matrix from the calibrated/corrected energy and position as a second information, if calibration procedure doesn't depend on the error matrix at all.

Mean of ( $E_{mc}-E_{rec}$ ) is shifted too much with high energy region and parameterizations are not precise enough.

It leads to under or overestimate of error matrices.

If we can do a calibration before the estimation of error matrix, we can get rid of such problem.

Can we do that?

Best wishes,  
Donghee

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