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Subject: Emc error matrix

Posted by [Dima Melnychuk](#) on Wed, 03 Dec 2014 11:50:25 GMT

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Dear all,

Following the request to extend the emc covariance matrix from 4x4 (px,py,pz,E) to 7x7 (x,y,z,px,py,pz,E) I introduced the changes in PndEmcErrorMatrix class by adding the method GetErrorP7(). I attached a short not for those who are interested in details.

I would like to ask Stefano for the following changes in PndPidCorrelator.cxx (I do not have a write access there)

Instead:

```
TMatrixD covP4=fEmcErrorMatrix->Get4MomentumErrorMatrix(*clu);
```

should be:

```
TMatrixD covP7=fEmcErrorMatrix->GetErrorP7(*clu);
```

Instead:

```
pidCand->SetP4Cov(covP4);
```

should be:

```
pidCand->SetCov7(covP7);
```

Best regards,

Dima

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### File Attachments

1) [emc error matrix note.pdf](#), downloaded 402 times

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Subject: Re: Emc error matrix

Posted by [Stefano Spataro](#) on Thu, 04 Dec 2014 17:33:08 GMT

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Done.

Moreover, in the case of neutral candidates, with the latest PidCorrelator the LastHit is filled with the position of the EMC bump/cluster.

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