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

File Attachments

1) emc error matrix note.pdf, downloaded 724 times

Subject: Re: Emc error matrix
Posted by StefanoSpataro 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.