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Subject: Re: Abnormal distribution

Posted by [Jifeng Hu](#) on Tue, 22 Jan 2013 10:40:28 GMT

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Here I show the codes slice,

```
PndEmcBump* theHit = (PndEmcBump*) fRecoHitArray->At(HitIndex1);
  fEnergy1 = theHit->energy(); // E1
  fEnergy1C = theHit->GetEnergyCorrected()/1.009; //E1C
  PndEmcCorrection* theCorr = (PndEmcCorrection*)fCluCorrArray->At(HitIndex1);
  fEnergy1CC = theCorr->EnergyCorrPhoton(); //E1CC
```

since the peak energy provided by theHit->GetEnergyCorrected() has a shift, temporarily I made a further correction by a factor 1.009.

Attachment eps file shows the difference between E1C-E1, E1CC-E1, and E1CC-E1C.

PndEmcClusterAna class is used to save information from PndEmcBump.  
PndEmcMcTruthWriter class is used to save information from PncMCTrack.

best regards.

#### File Attachments

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- 1) [3energy\\_diff.eps](#), downloaded 410 times
  - 2) [3energy.eps](#), downloaded 418 times
  - 3) [PndEmcClusterAna.cxx](#), downloaded 461 times
  - 4) [PndEmcClusterAna.h](#), downloaded 401 times
  - 5) [PndEmcMcTruthWriter.cxx](#), downloaded 403 times
  - 6) [PndEmcMcTruthWriter.h](#), downloaded 436 times
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