
Subject: Re: Loss of efficiency for electrons at $\theta \sim 22^\circ$, due to association failure in EMC

Posted by [Stefano Spataro](#) on Fri, 20 Feb 2015 20:58:20 GMT

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Nobody of EMC has ever worked on the track-EMC correlation, you are asking to the wrong guys.

```
if ( (emcModule<3) && (helix->GetZ())>150.) ) continue; // not consider tracks after emc barrel  
for BARREL  
if ( (emcModule==3) && (helix->GetZ())<165.) ) continue; // consider tracks only from last gem  
plane for FWD  
if ( (emcModule==4) && (helix->GetZ())>-30.) ) continue; // consider tracks only ending at the  
back of STT for BKW
```

The lines are well commented, and they explain why they were put there. helix is the track parameters at the last point of the track. Since these are geometrical selections, in theory they should work. Which is the EMC module which is suffering from that drop? A check with MC id could help (but you need to use recent trunk since in oct14 the MC for EMC was bugged).
