Subject: Condition for tracks to hit FWD EMC Posted by pandachris on Thu, 06 Oct 2016 13:58:20 GMT View Forum Message <> Reply to Message

Dear all,

in the file PndPidEmcInfo.cxx, there is a condition saying if ((emcModule == 3) && (helix->GetZ() < 165.)) continue; // consider tracks only from last gem plane for FWD This basically ensures that tracks without a hit in the last GEM plane are not considered to constitute pidChargedCandidates. However, even if tracks have only STT/MVD hits, they can still pass between the gap of GEM and EMC barrel and produce a cluster in the EMC forward detector. Therefore I would consider this condition redundant.

Is there any reason for this that I do not see or can it be removed?

Thanks and all best, Chris

Subject: Re: Condition for tracks to hit FWD EMC Posted by StefanoSpataro on Thu, 06 Oct 2016 14:03:36 GMT View Forum Message <> Reply to Message

Quote: This basically ensures that tracks without a hit in the last GEM plane are not considered to constitute pidChargedCandidates.

This ensures that tracks without a hit in the last GEM plane are not correlated to the FWD EMC, saving a lot of CPU time. But the pidChargedCandidate is created. Can you please evaluate (DPM?) how many tracks w/o hits in the last GEM plane are really hitting the FWD EMC?

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