Subject: Re: Bug in PndEmcMapper class: neighbour lists of PndEmcTwoCoordIndex wrong
Posted by Dima Melnychuk on Fri, 12 Jun 2009 16:12:54 GMT
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Hi Elwin,
I have corrected PndEmcMapper according to what you proposed.
It was indeed a bug.

However it didn't affect significantly emc digitization/reconstruction procedure.

At the begin I wanted to use PndEmcTwoCoordIndex::GetNeighbours() to check if two elements are neighbors for clustering in PndEmcMakeCluster, i.e. if one PndEmcTwoCoordIndex is in list ofneighbors of second PndEmcTwoCoordIndex they are neighbors. However what is implemented now in PndEmcTwoCoordIndex::IsNeighbour() works faster.

PndEmcTwoCoordIndex::GetNeighbours() was used so far in emc digitization in PndEmcHitsToWaveform.cxx, where Waveforms are generated not only for the crystals containing hits but also for their neighbors.

But anyway it was a bug and it is corrected now.

Best regards,
Dima