Subject: Re: Access to EventHeader. after Digitization
Posted by Tobias Stockmanns on Wed, 23 Nov 2016 12:03:15 GMT
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Dear Michael,

the difference between the number of events in simulation, digitization and reconstruction is not surprising. The simulation file is identical in TimeBased and EventBased simulation, so you have here the number of events you have simulated. In the digitization stage the ordering of the digi stream is randomized depending on your detector and afterwards sorted by the TimeStamp. The digis of one event are not longer in the same entry as in the simulation and they can be completely mixed up. The last entry in the digitization file contains all data of the sorter which has not finished sorting before the last event happend.

The number of events in the reco file can be anything from 1 to (almost) infinity. It only depends on the way you take the data from the digi file via the GetData method. You can have less events if you have events merged together or more, if one event is split into many "pseudo-events".

Cheers,

Tobias