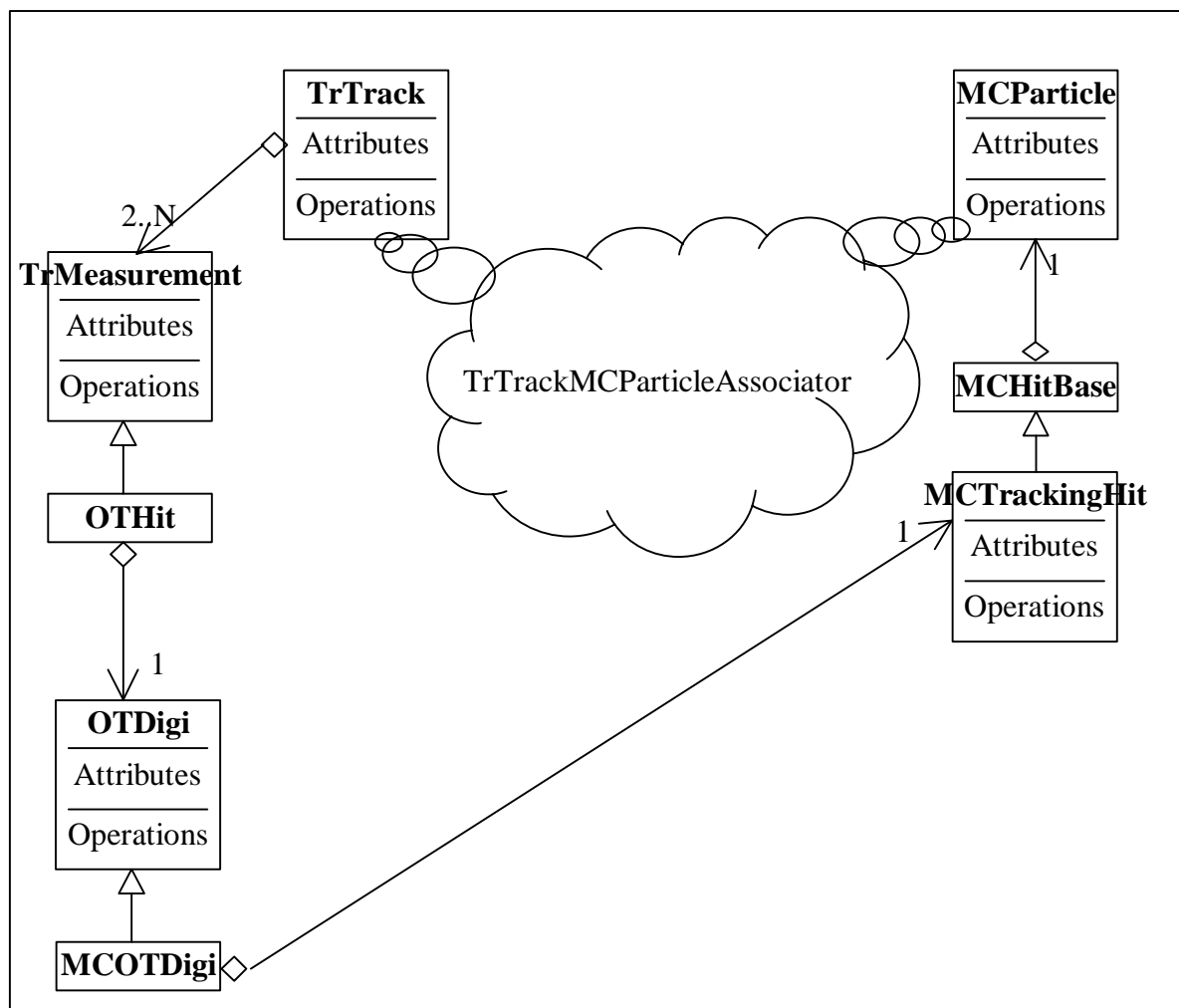




Event Data Model

Generic relationship between reconstructed data and MC Hits

- Navigation always via associator
- Data model could be optimised later by introduction of additional navigation classes
 - Transparent to applications





Spillover events

◆ Definitions:

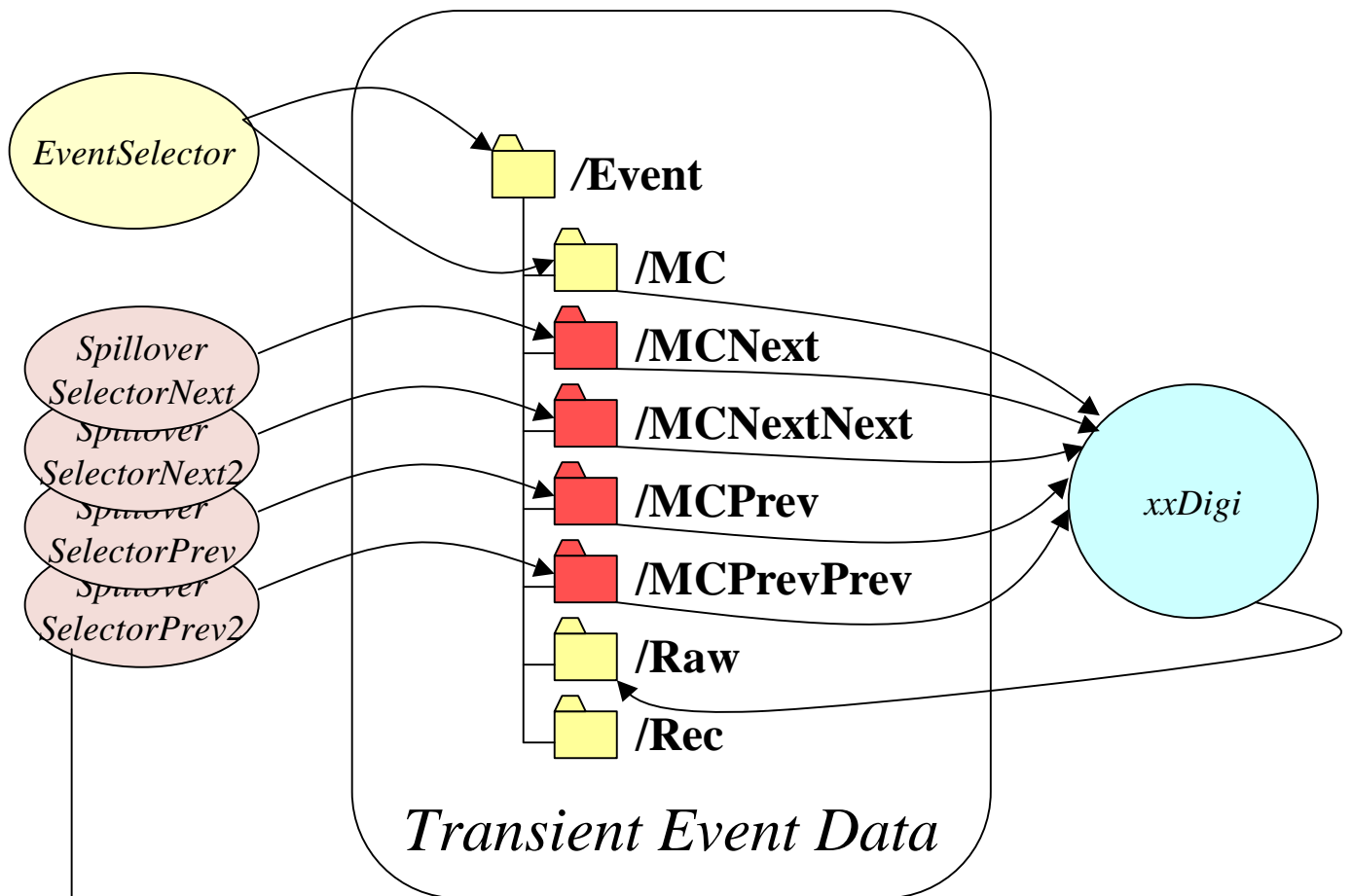
- **Pileup: several events from same beam crossing**
 - Combination done by simply adding MC Hits of underlying events to the physics event
 - Requires no changes to digitisation code
 - Implemented in both Brunel and SICB

- **Spillover: events from previous or subsequent beam crossing**
 - Combination must preserve 25ns timing offset
 - Digitisation must know what to do with hits that are 25ns early/late
 - Sub-detector specific

 - Not implemented in SICB or Brunel
 - I/O for additional events trivial with Gaudi
 - Sub-detector digitisation code must be rewritten (if spillover is relevant)



Spillover events in Gaudi



SpilloverSelectorNext.TimeOffset = 25*ns;
SpilloverSelectorNext2.TimeOffset = 50*ns;
SpilloverSelectorPrev.TimeOffset = -25*ns;
SpilloverSelectorPrev2.TimeOffset = -50*ns;