

OT Software Status

37th LHCb Software Week

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Outline

1. Associations of OT deposits and times
2. Monitoring
3. Delta rays
4. Summary

Associations of OT deposits and times

- Only deposits in the range of one sigma time resolution are linked in Boole
 - too tight cut?
 - remove this cut or make it wider (maybe 2 or even 3 sigma)
 - note: Deposits are now linked with a weight
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 - cut is not really necessary anymore
- If we remove the cut
 - make changes in the monitoring
 - cut can always be (re-)applied in Brunel, since deposits are linked with a weight

Monitoring

- Online Monitoring (Herve Terrier)
 - Package OTOnlineMonitoring
 - OTDAQCheck – bank multiplicity, ...
 - OTErrorBankMonitoring
 - OTMonitoring – drift time, occupancy, ...
 - Wiki page:
 - <https://lbtwiki.cern.ch/bin/view/OT/OTOnlineMonitoring>
- Offline Monitoring (Johan Blouw)
 - *add* to Offline monitoring histograms from Online

Delta rays

- We will not be able to enable it in DC09
- But we are going to study this
 - need to change OT deposit creator to cope with delta rays creation, ‘destruction’ in the middle of the module
 - add new flag for delta rays deposits for linker
 - add some monitoring
 - still have to think about how to make deposits for DR
- See if we will have significant changes in the occupancy, number of OT deposits per OT time, etc.

Summary

- OT software is in good condition
- Fix linking in Boole
- There will be some additions in monitoring
- Need some work on delta rays
- Also there will be some changes in OTDAQ (consistency checking) from Herve Terrier.