



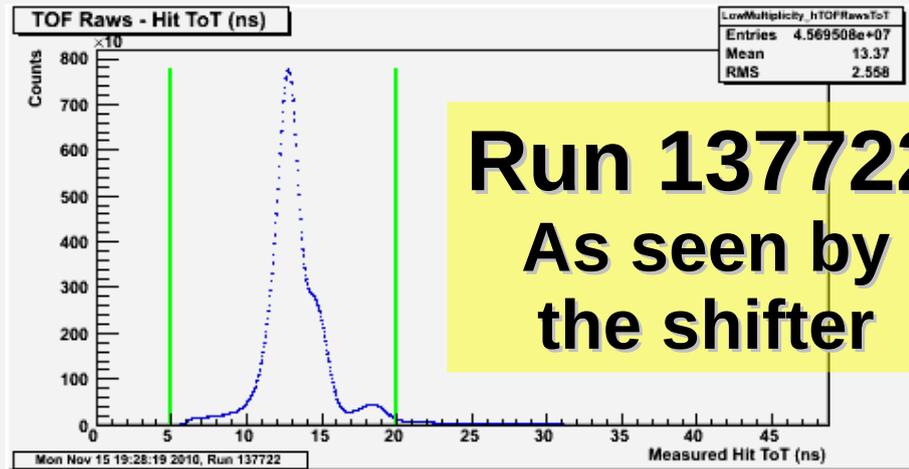
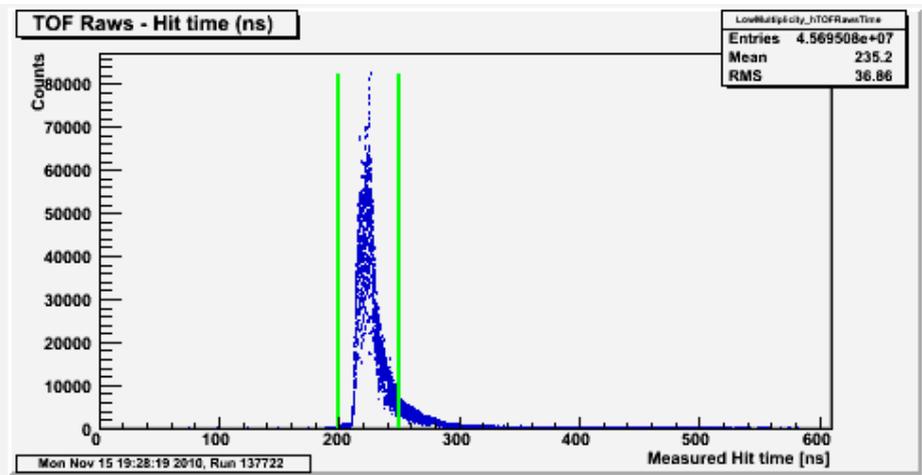
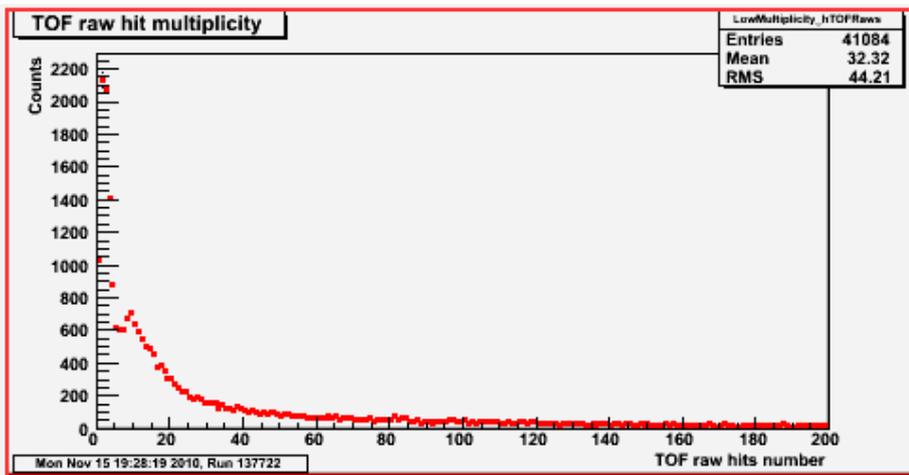
TOF update for DQM

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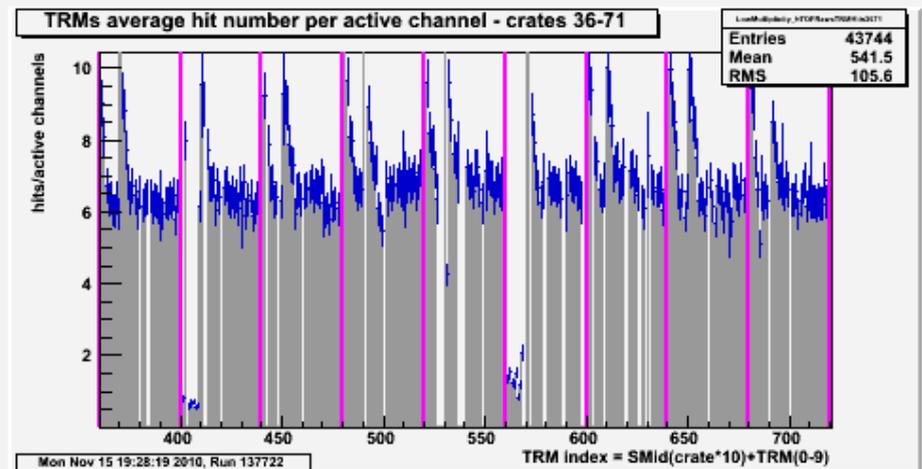
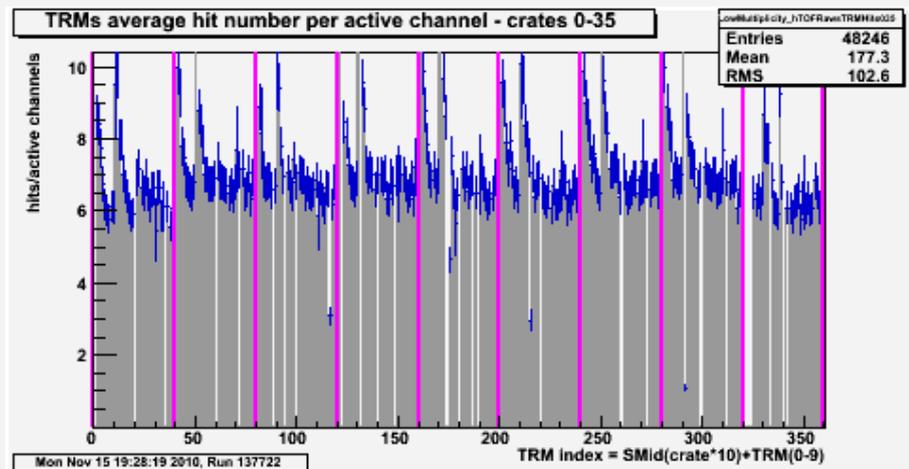
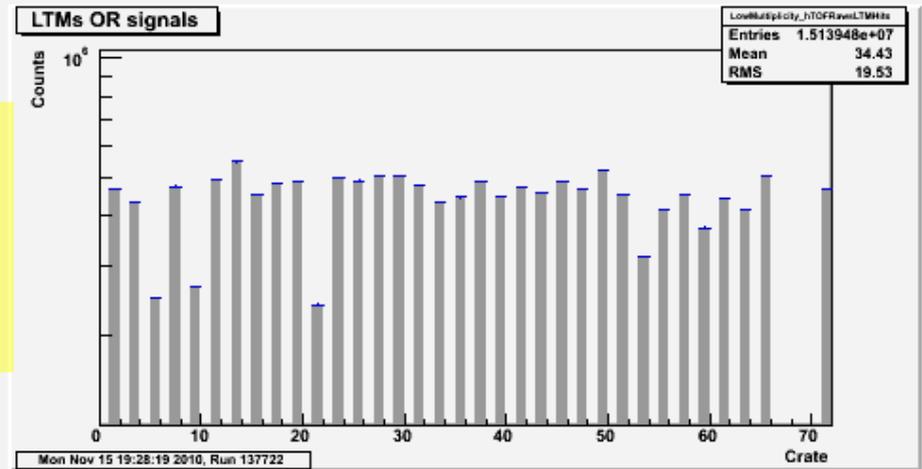
DQM meeting @ ALICE offline week
CERN, 19th November 2010

Outline

- Review of TOF DQM status
 - ✓ Logbook summary image
 - ✓ Histograms appearance
 - ✓ Documentation
- QA code updates and to do list
- New entry in the TOF DQM team



Run 137722
As seen by
the shifter



Logbook summary image

1) Logbook summary image (our main source of pain...)

- TRM histos that were not in the summary image (not even axis) although seen by the shifter
 - this was **fixed last week** when Barth modified the sequence of the end of cycle in amoreQA by introducing a new MakeImage (to solve other problems not related to TOF...)
- TRM plots in which y-axis scales appear zoomed-in in the QA objects but not in the summary image
- TRM plots look empty in the summary image although shifters sees them
 - thanks to Barth, I have an idea on how to debug the problem
 - I believe that it is related to the EndOfDetectorCycle operations and the production of the image by the QA MakeImage
 - ...Work in progress
 - **will be fixed by next week**

Logbook summary image

1) Logbook summary image (our main source of pain...)

→ showed also experts plots therefore it was not matching plots seen by shifter

- eliminated since AliRoot v4-19-Rev-13

but we would like that some expert plots appear also in the logbook

- we would like to have the AMOREagentTOFQA publishing a summary image with the experts plots.
- **goal for next year's start of data taking**

Histograms appearance

2) Aspect of plots

- good in the amore GUI
- to be fixed in the summary image as previously seen...

3) Number of plots, readable date, time, run number

- Some shifter say that number of plots should be less than 4 to see date, time and run number clearly, some others had no problem with that..
- We don't plan to reduce the number of histos for the moment

4) Visual help to shifter:

- we use lines to mark range of expected values

Documentation

5) Documentation @ TWiki

- ok for pp & technical runs + updated!!!
- added blackboard for notes to the shifter in TOF page
- info for HI runs updated + screenshot included
- following updates to come...

6) Documentation @ AMORE GUI

- configfile with histogram descriptions ready
- loaded yesterday to AMORE GUI at P2
- agent restarted and working!!!

7) Quality flags

- **green** means filled histos,
- yellow** means empty plots,
- red** not used
- purple** means no monitoring data (TOF out of run or agent crashed)
- to be updated with more detailed checks!

Updated overview of TOF DQM status

	TOF
Number of plots	6
Aspect of plots (titles, axes labels and titles, bad overlap, ...)	
Tab layout (which plot is where, log scale, stat box, draw option)	
Visual help to shifter (bars, boxes, ...)	
Correct quality (color square in the tree is meaningful)	
Logbook summary image identical to the tab layout	
Objects' descriptions (new feature based on config files)	
Documentation	
Readable date, time and run number	

→ This turned green yesterday! :)

QA code updates and to do list

Last changes committed in AliRoot v4-19-Rev-19:

- replaced pointer to TH1 in AliTOFQADataMakerRec::EndOfDetectorCycle() with object to prevent crash of the agent and memory faults (thanks Barth :))

New changes foreseen:

- **reduce size of the experts objects**
- **debug the EndOfDetectorCycle() to understand what's wrong in the publication of the images**
- **produce reference data for PbPb collisions (from “golden” run 137161)**
- **modify AliTOFQAChecker with updated constraints on data quality**

Short term

Longer term (before 2011 data taking)

New entry in the TOF QDM team

Since I am not in Geneva most of the time,

Daniele De Gruttola

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will help me as DQM and TOF expert here at CERN.

Can you please add him to the list of DQM people for TOF?

Thanks...