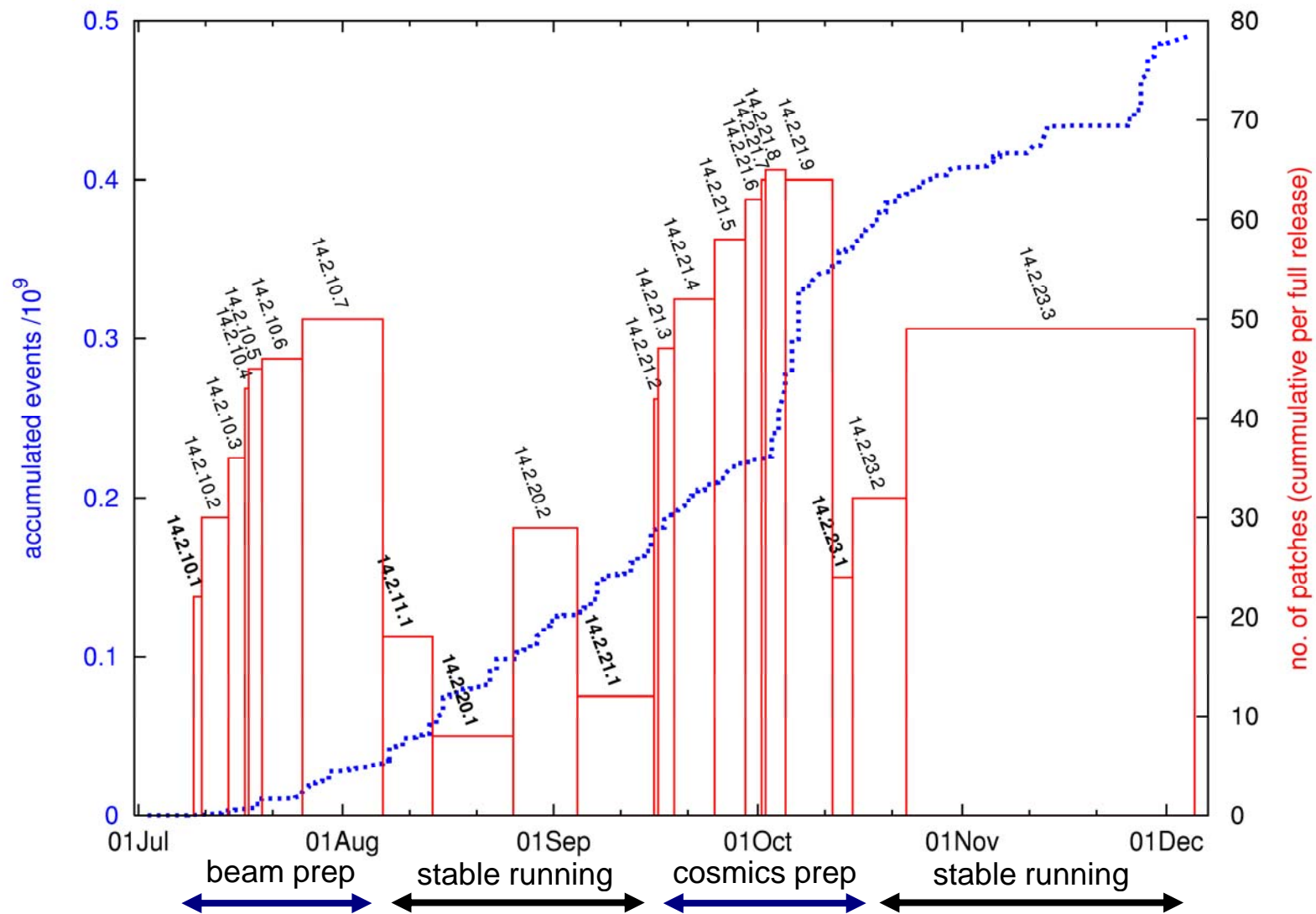


# Trigger Validation

- Validation team:
  - Under the Releases and Validation activity coordinated by Simon
  - Validation team co-coordinated by David Strom (Oregon) and Ricardo
  - About 15 people involved; about 40 sign the papers
  
- Lots of activity since the last T2UK meeting in December:
  - Validation of 14.2.25.x : reprocessing of the MC08 data; data for Beatenberg
    - From 14.2.25.1 to 14.2.25.8 (!) – final cache quite good and a reference for later developments
  - Validation of 14.5.0.3 : cosmics data reprocessing
    - Used for trigger studies – some plots shown at conferences
  - Validation of 15.0.0 : first step in 15.X.0 series
    - 15.0.0.1 used from today in technical run at P1
    - 15.3.0 will be baseline for first collisions

HLT online releases and events recorded in 2008



# Trigger Validation (cont'd)

- Trigger Dashboard – new tool for validation (see next slide):
  - Written by Alejandro Oyarzun (UTFSM, Valparaiso, Chile) working with Ricardo – to be Alejandro's Master Thesis work
  - Harvest test results from nightly tests
  - Store results in database for long-term queries
  - Display results graphically
- Started weekly validation coffee meeting :
  - Useful for people at CERN but also to disseminate info through meeting minutes to people outside CERN
  - Has been going well and proved to be very useful
- Validation talks presented at ACAT'08 (D. Ferreira de Lima) and CHEP'09 (W.Ehrenfeld)

# Trigger Software Validation Dashboard

## Trigger Dashboard

query interface

Fill the filters to start a new search:

Var Name

vmem-fit

Test Name

te

Release Name

Initial Date

Platform Name

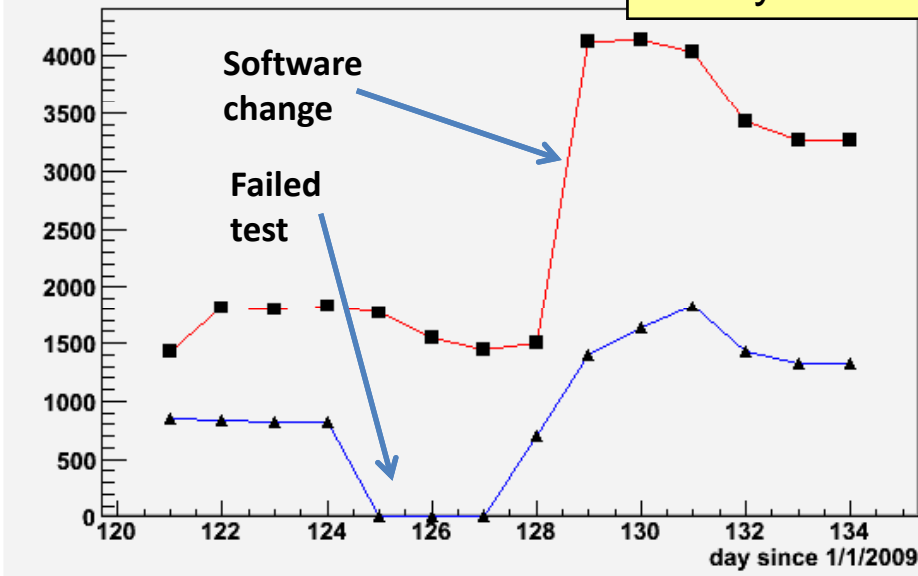
[testAthenaModernRDO](#)  
[testAthenaModernRDOtoAOD](#)  
[testAthenaModernRDOtoESDAOD](#)  
[testCaloAthenaModernRDO](#)  
[testElectronSliceAthenaModernRDO](#)  
[testMuonSliceAthenaModernRDO](#)  
[testTauSliceAthenaModernRDOtoESDAOD](#)

Search



CPU [ms]

Query result



- prototype functional
  - full implementation in near future
- long term validation/monitoring of physics quantities, e.g. trigger rates

# Other personal activities

- Review of Trigger Offline Monitoring together with S.Gadomski (Geneva)
  - Presented at Trigger Open Meeting of 21/1/09 –  
<http://indico.cern.ch/conferenceDisplay.py?confid=44649>
- Organisation of Higgs WG input for the Beatenberg Trigger Workshop
  - Several studies contributed to plans of all slices with information of physics analysis needs
  - Also provided impetus to reviving trigger studies in Higgs WG after long break caused by CSC notes
  - Also talk on tools for trigger-aware analysis in Beatenberg
- General ATLAS Trigger abstracts accepted at TIPP'09 (E.Ozcan), CHEP'09 (A.DiMattia), RT'09 (together with Imma Riu from Barcelona)