



**UNIVERSITÉ
DE GENÈVE**

Online Data Quality News

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- Status of SCT / ID On-line monitoring after run I

- ▶ Infrastructure organisation

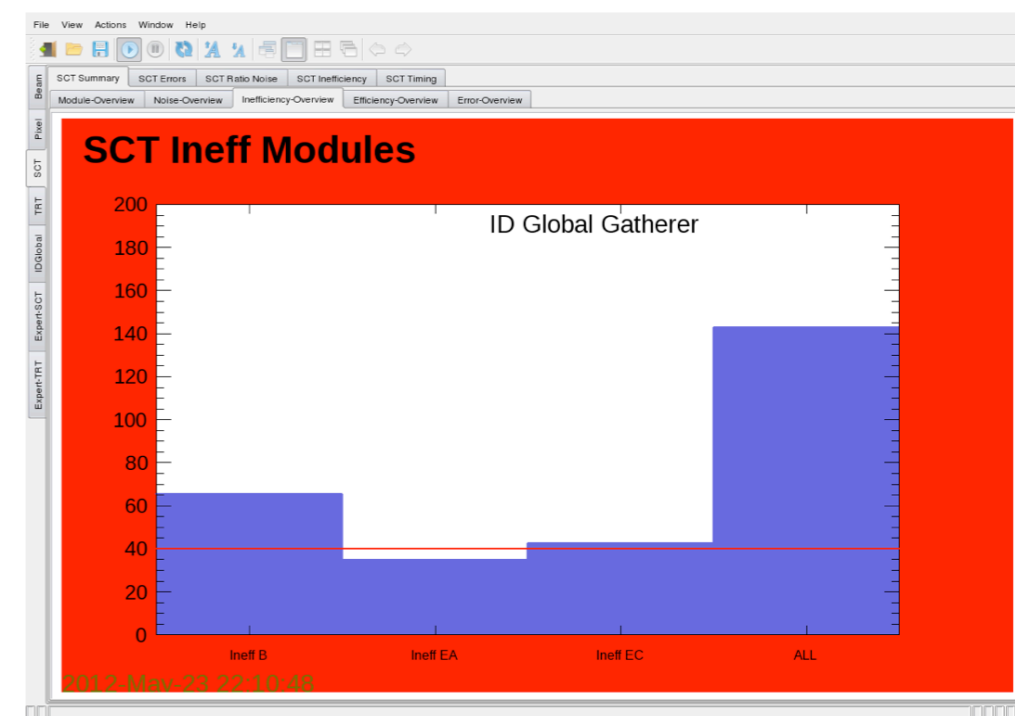
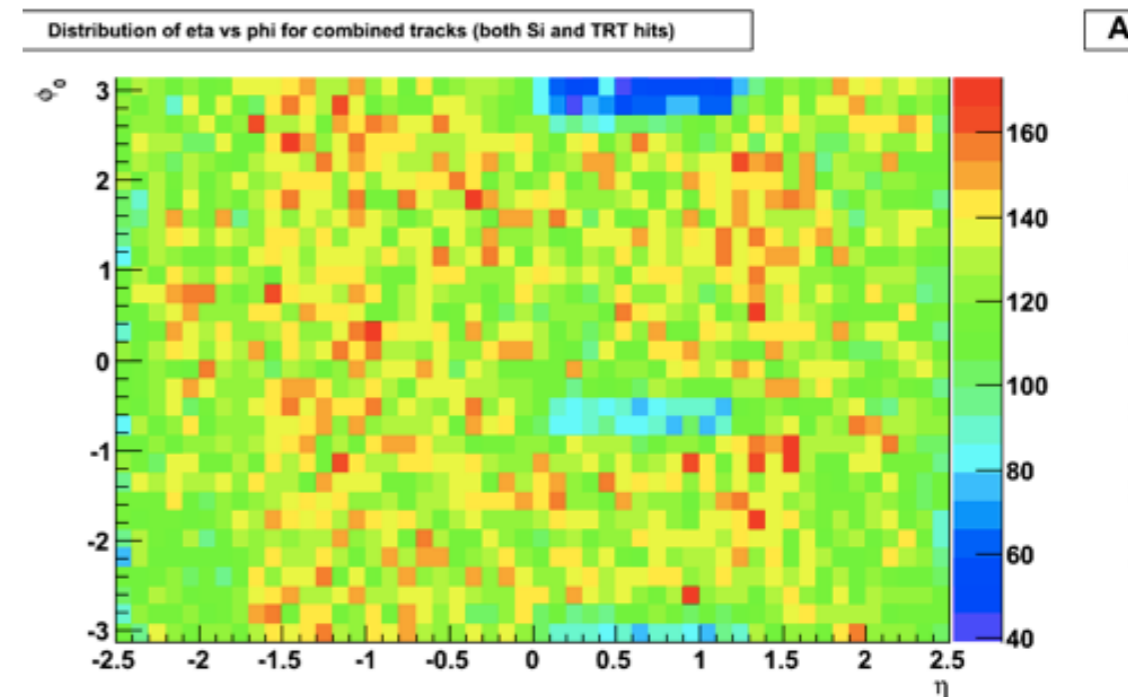
- Expert organisation

- ▶ coordination during data-taking

- ▶ LSI coordination: manpower issue

- Common with subsystems LSI prospects

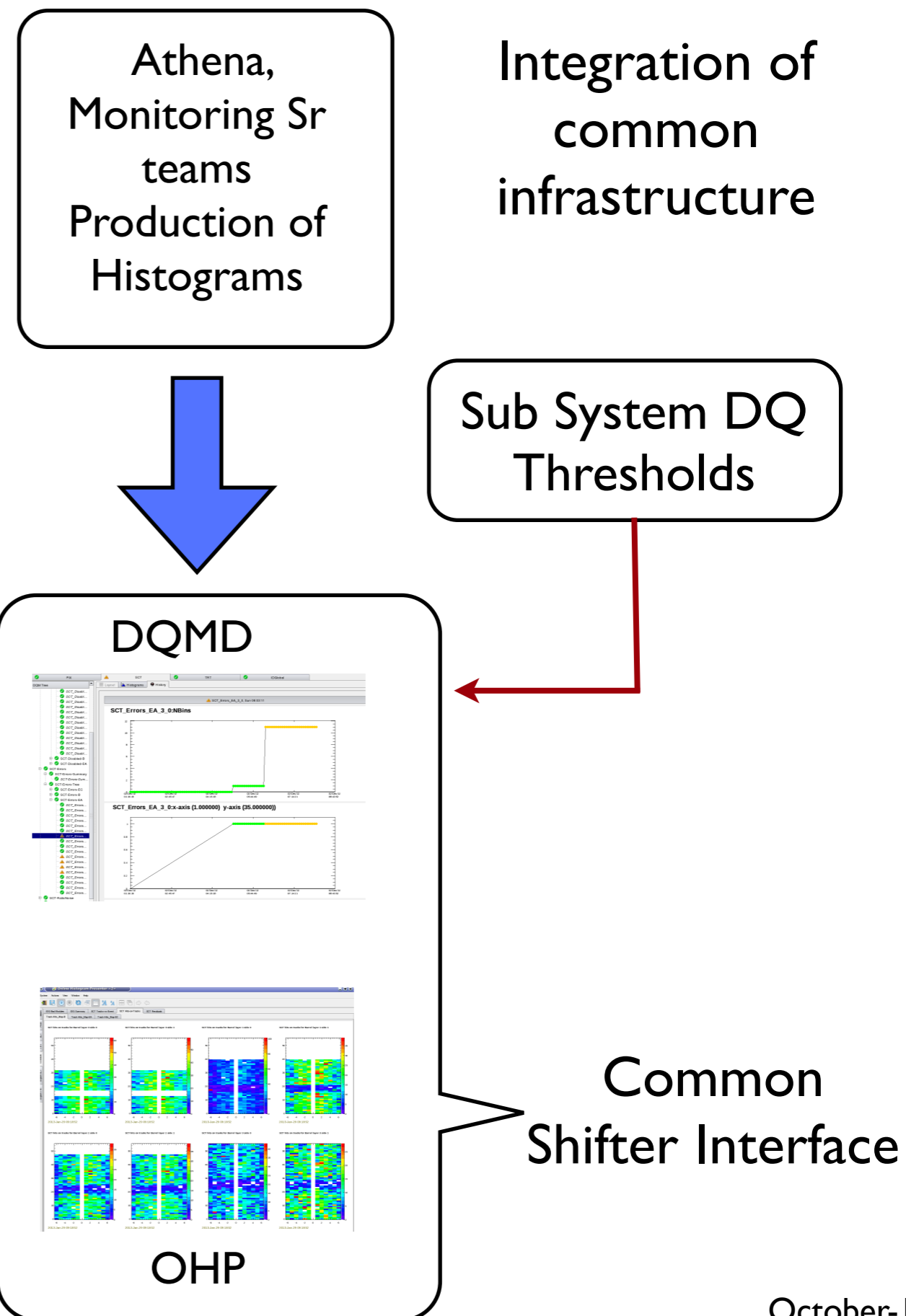
- SCT online DQ to do list



- ID back-end infrastructure
 - ▶ Sharing cpu resources
 - ▶ Common *Athena* event reconstruction
 - ▶ ID stream for common noise monitoring

- Shifter Interface: DQ tools : ohp, dqmd,
 - ▶ unified SCT/TRT/Pixel/ID tool usage
 - ▶ support trough one common expert

- Common on call expert
 - ▶ per sub system “super-experts”
 - ▶ at the end of run stable system
 - ◆ drastic decrease of super expert calls



- Weekly monitoring expert shift
 - ▶ manage on line DQ issues of all sub detectors
 - ▶ stable system
- “super-expert”: sub system dedicated experts
 - ▶ longer shift duty, resolves long terms issues
 - ▶ DQ thresholds tuning
 - ▶ software/infrastructure development/maintenance
- Common Meetings
 - ▶ During operations: weekly meeting
 - ◆ expert reports to super experts, coherent report to Run Co.
 - ◆ common resolution plan, correlated issues
 - ▶ LSI: less regular meetings, only when needed
 - ◆ lack of people involved in SCT (and ID in general)
 - ◆ expertise being lost

- Integration with central DQ ? (Advantages)
 - ▶ Sharing of infrastructure resources
 - ◆ increase of running jobs, higher statistics
 - ▶ Optimisation of manpower
 - ◆ lack of people involved in both systems
 - ▶ Unified Data Quality overview during running
 - ◆ avoid red flags due to different thresholds in central DQ and ID
 - ◆ was recurrent.
- Integration with central DQ ? (Disadvantages)
 - ▶ Loss of autonomy in SCT code modifications
 - ▶ Less flexibility in special reconstruction jobs
 - ◆ special runs, etc..
- Unification of histograms
 - ▶ ex: occupancy vs LB for sub detectors

- Implementation of *TDAQ* changes/recommendations
 - ▶ Ex: luminosity dependant DQ thresholds:
 - ◆ past experience showed DQ constant tuning needed, more automated approach
- On line monitored quantities
 - ▶ Code re organisation/ optimisation
 - ◆ lost cpu time in producing of non monitored quantities
 - ▶ Common layout of common monitored quantities
 - ▶ Remove redundancy with ID/Pixels
 - ▶ new monitored quantities implementation
- LSI updates so far: **Lack of Manpower!**
 - ▶ No major modifications so far
 - ▶ **Gradual expertise evaporation**
 - ▶ **Not able to dedicate time personally**
 - ◆ need to finalise analysis tasks