Data Validation

(Plans, status, things to do)

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Data Validation (charge)

- Asked to provide Si data validation 12/00
- Data validation ??
  - Method to check, understand data quality
  - Raw info + reconstructed objects (cluster, tracks, alignment etc.)
  - Should be checked by validation shift crew

Plan

- Write a job that can be run offline (+ online)
  - Offline : need high statistics for detailed study
  - Online : would like fast feedback for problem detection and solution
- Histogram and display (+ document):
  - Raw info : ADC counts
  - Clusters : extent, multiplicity, signal/noise, occupancy
  - Tracks : pt, residuals, matching efficiency
  - Beamspot : position etc …
- Team of shifters (some remote?)
  - monitor output
  - well-defined response procedures

Status

- Use standard CDF clustering and tracking code
  - So can change/ configure by talk-tos
- Mechanism for filling delta and time history histograms written
- Currently coding the rest
- Stephane Tournier (UCDavis) working on macros for display

Things to do

For March:

- Histograms + more histograms ….
- Macros for ROOT display
- Documentation

- **Aim to have basic working system**

After that: (online issues)

- Timing : must address code optimisation, tracking time
- Amount of info : cannot store a very large number of histograms in memory