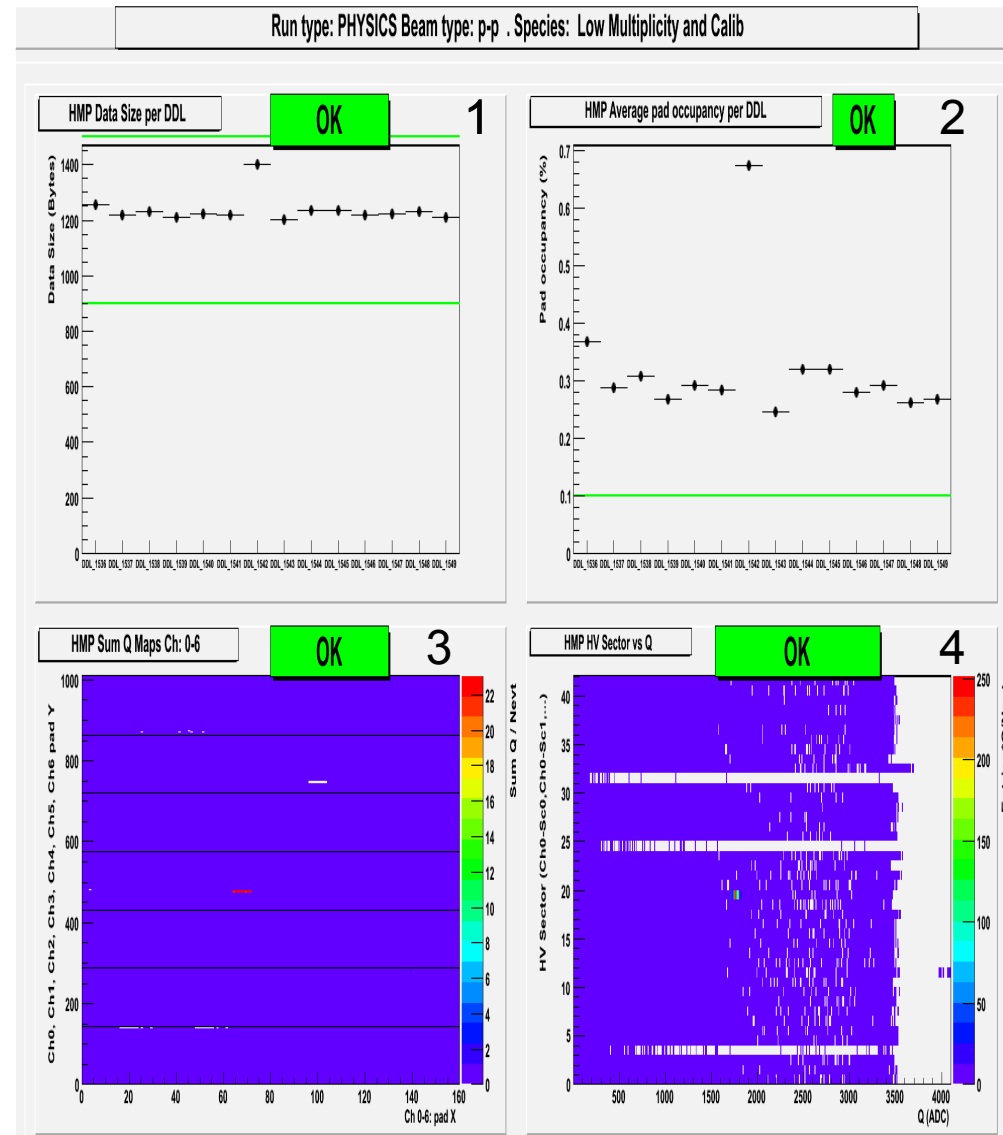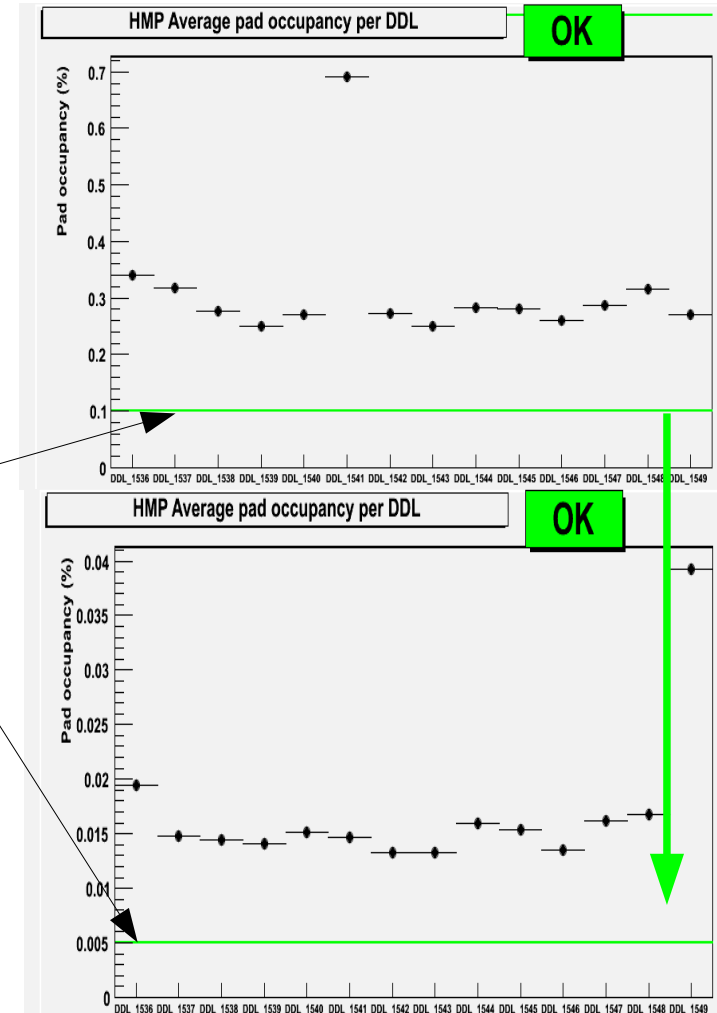# DQM thresholds

HMPID DQM

- Thresholds are set to:

  - Address raw data quality

  - Alert DQM shifter in case of problems

- In HMPID DQM we monitor:

  - Data size per DDL

  - Pad occupancy

  - Response of electronics channels

  - Charge collected in the HV sectors
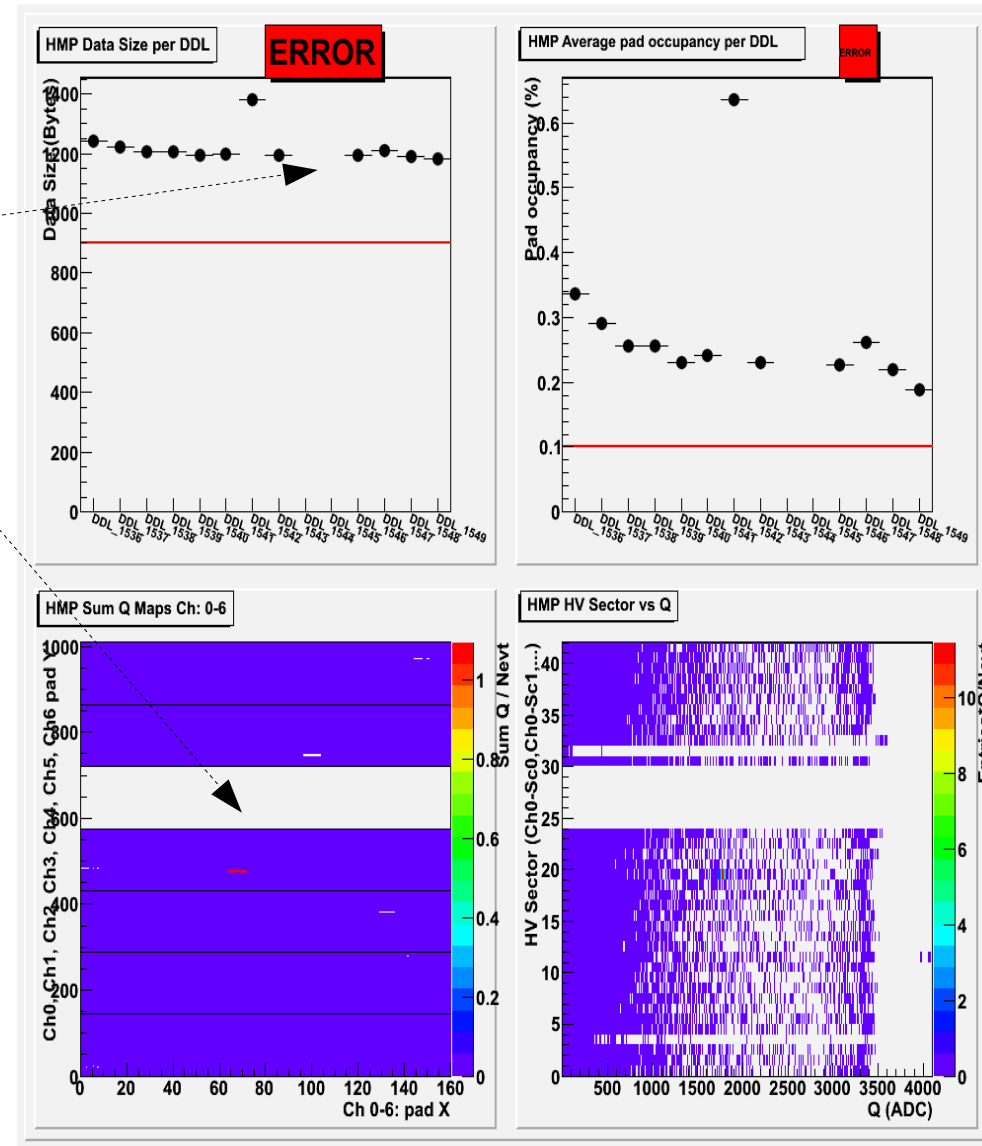
Change of the thresholds I.

- Scheduled:

  - Beam type / run type:
    - Occupancy

  - Change of zero suppression:
    - Data size, occupancy

  - Change of HV configuration:
    - Charge in HV sectors

Change of threshold is performed by HMPID OnCall / exp.

Change of the thresholds II.

- Not scheduled / rare problems:

  - Lost control of a chamber:
    - Decrease the number of active chambers

  - Data structure corruption:
    - Decrease the number of active DDLs

  - Modification of thresholds: restore:
    - Restores temporary normal condition
    - Does not hide further problems
    - Can we set thresholds outside of P2 (eg. via LogBook)?

Due to the modular structure of HMPID, problems could influence data from max. one chamber, the rest continues normal operation.