CENTRO DE ASTROBIOLOGÍA
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CSIC INTA

OMC Status

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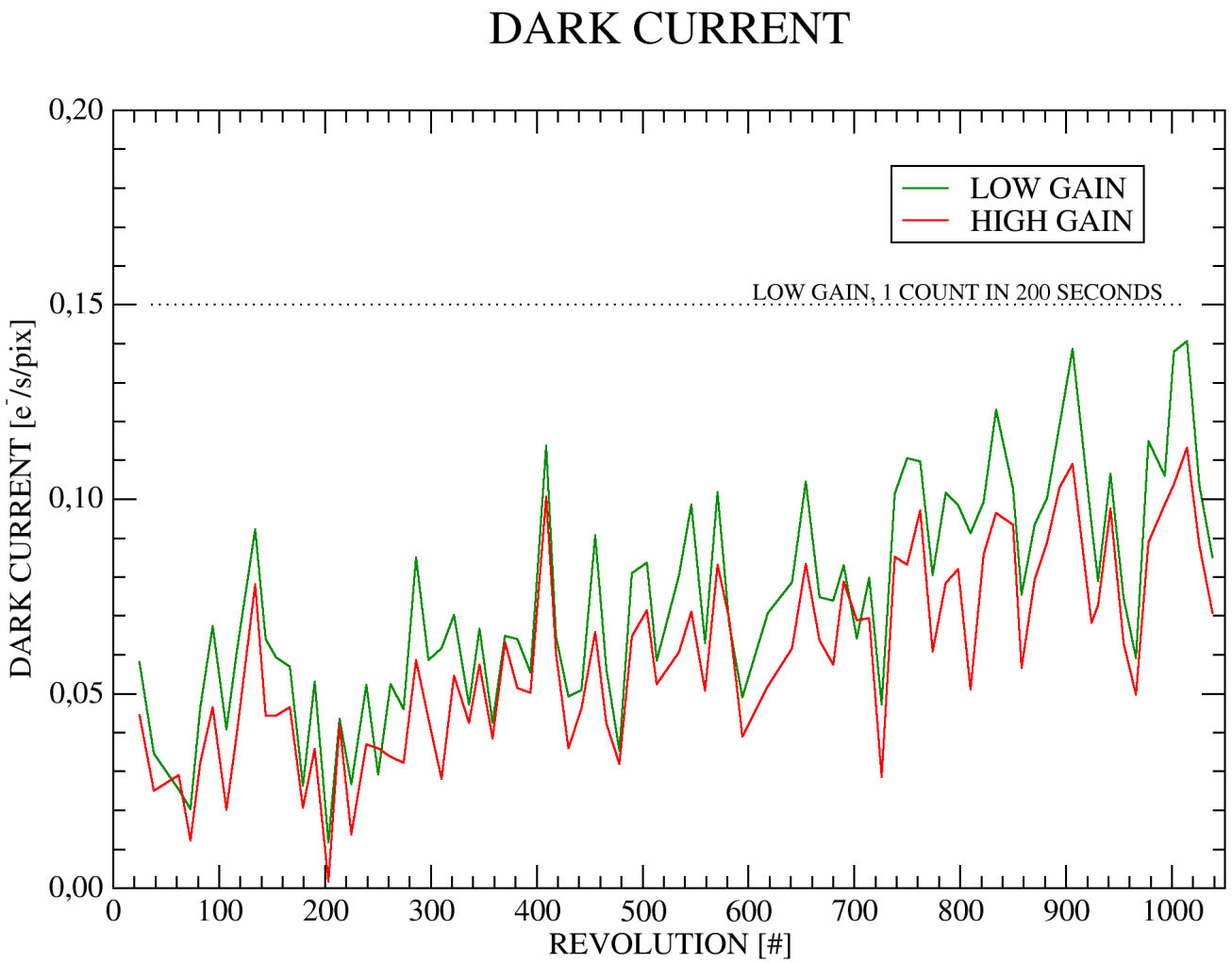
OMC status and operations

- OMC Status
  - CCD surviving well, but dark current and hot pixels increasing slowly
  - Flatfield stabilized
  - Sensitivity stable
- No operational anomalies
- Currently working on
  - Saturation filtering
  - Major update of Input Catalogue
  - Compilation of output catalogue (first release after the summer)

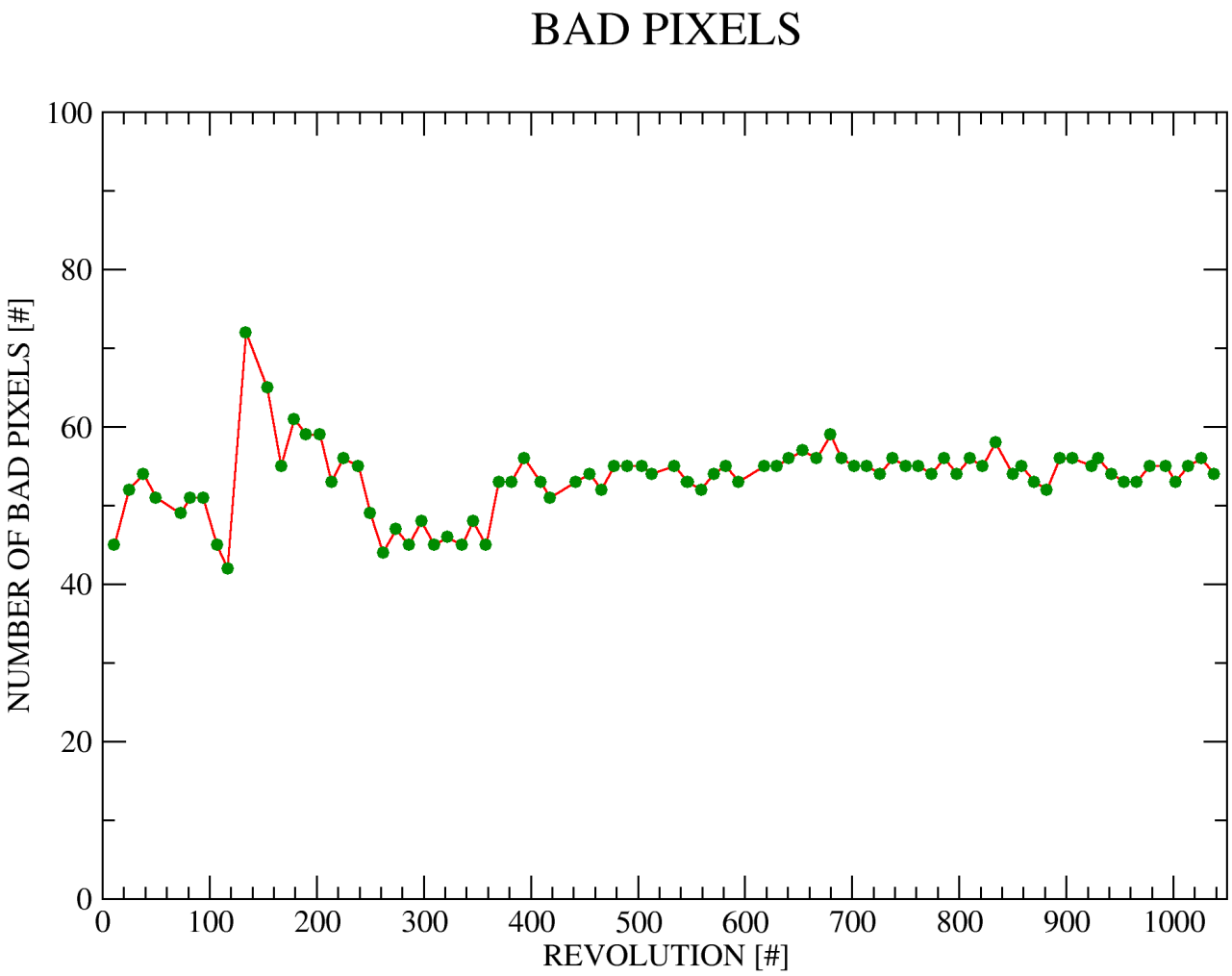
CCD status

- The dark current increases slowly, but remains well within aceptable limits.
- No temperature correction done on the plot.



CCD status

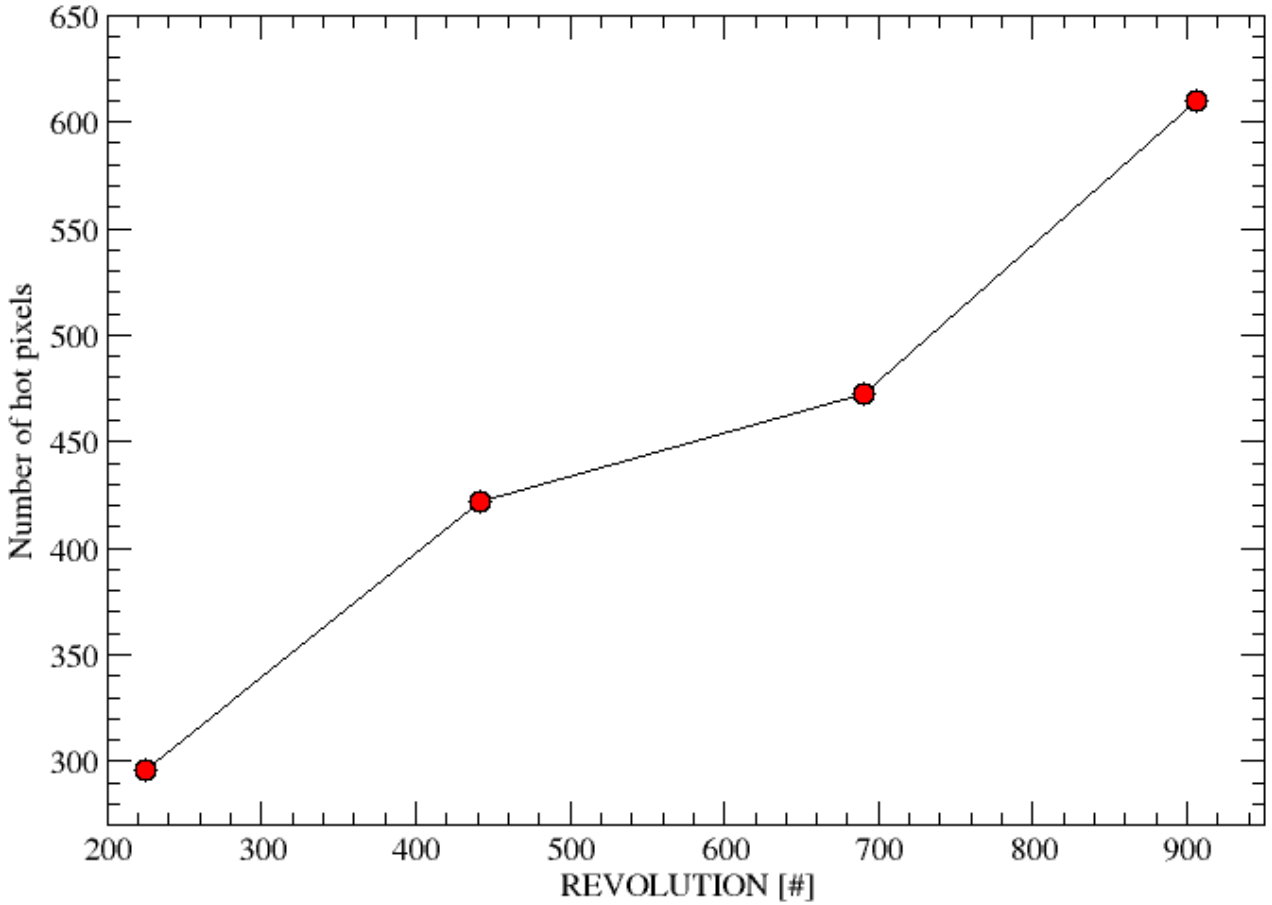
- The number of dark pixels remains very stable.



CCD status

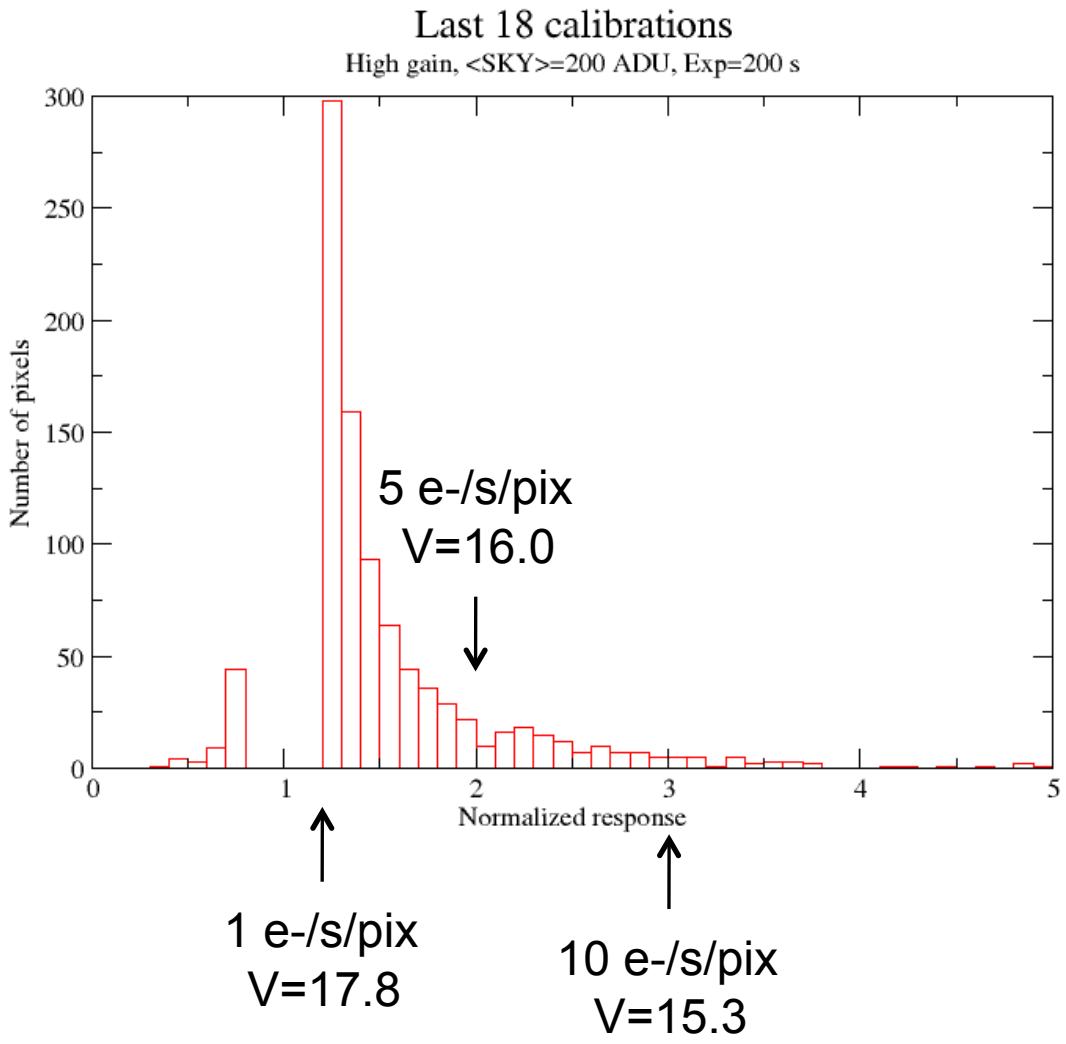
- The number of hot pixels increases steadily.

→ *the number remains sufficiently low.*



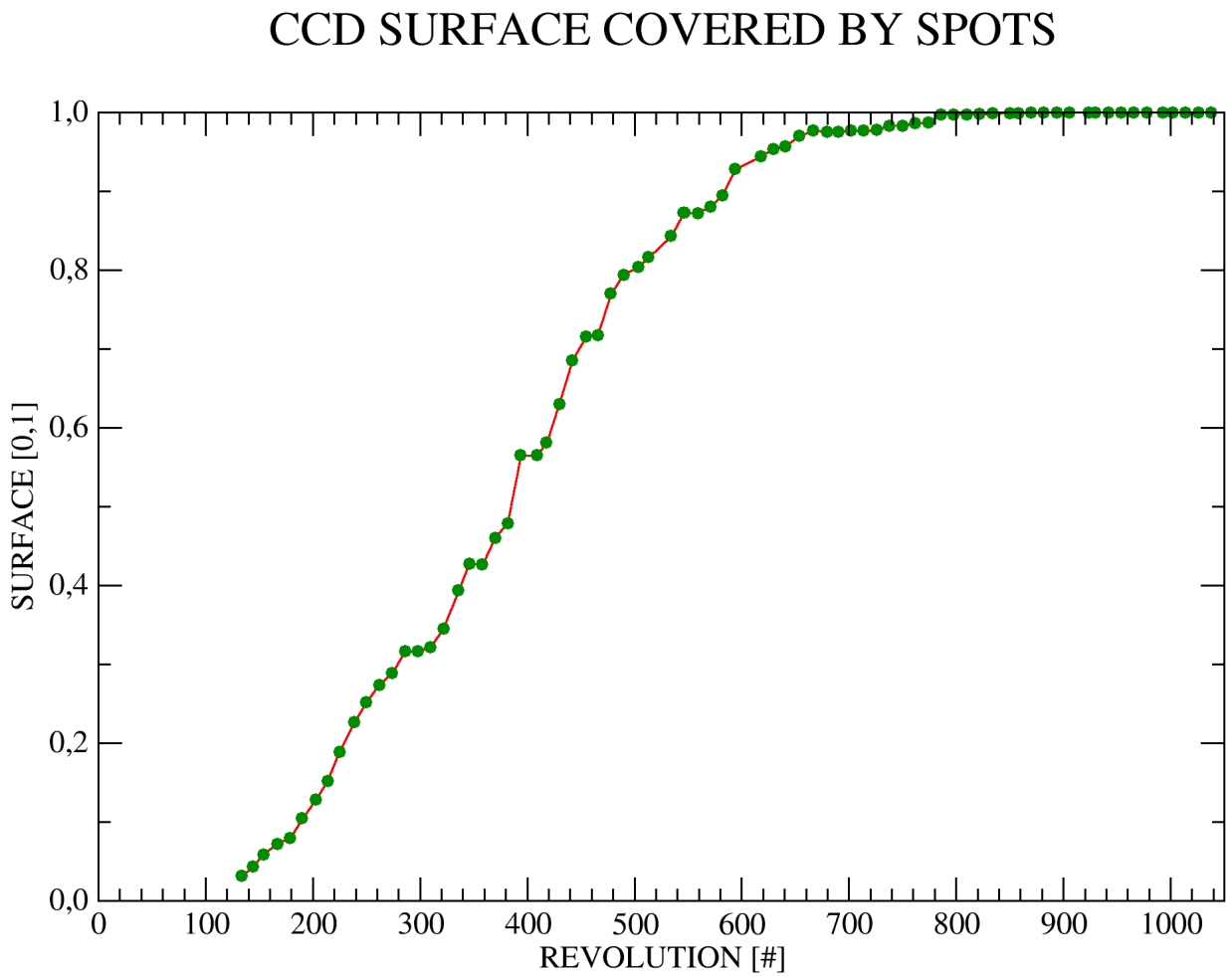
CCD status

- The majority of hot pixels still have no effect on OMC science.



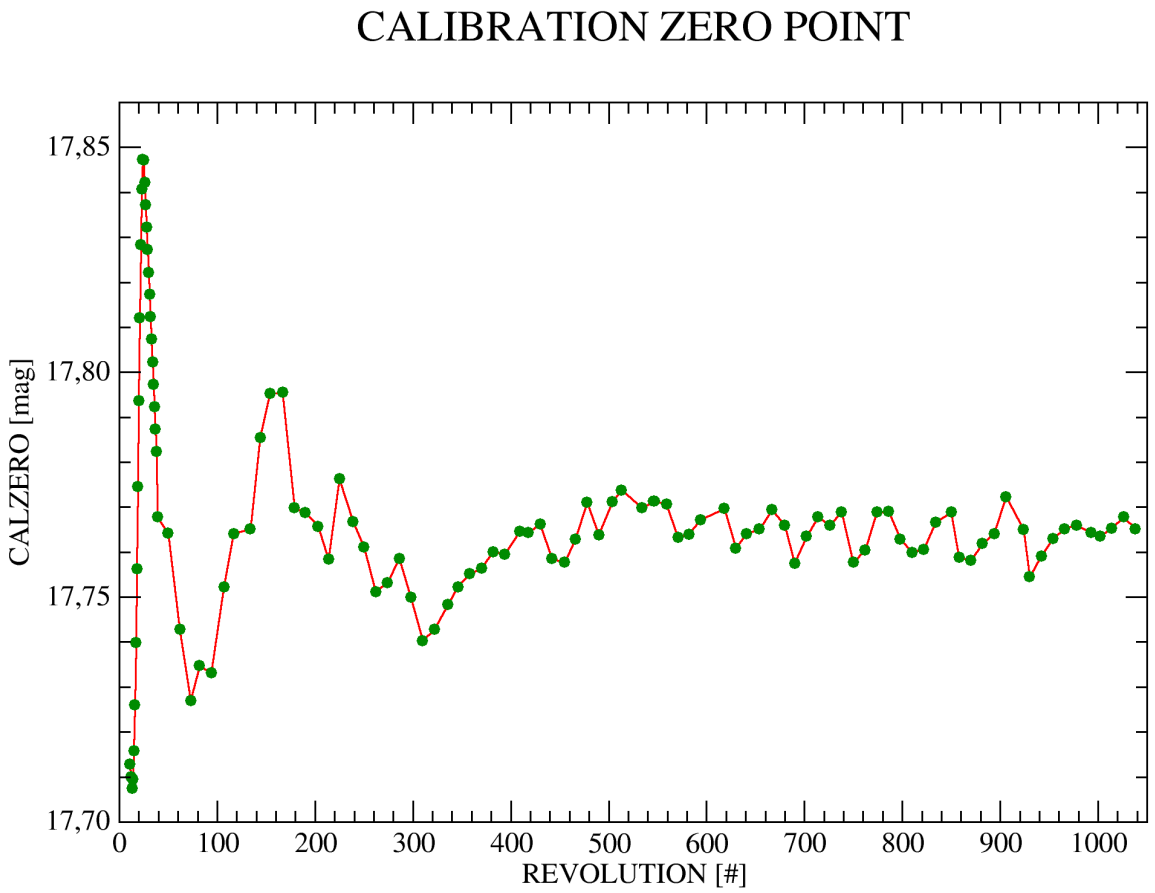
OMC status: FF calibration

- The flatfield has completely stabilized since revolution 800.



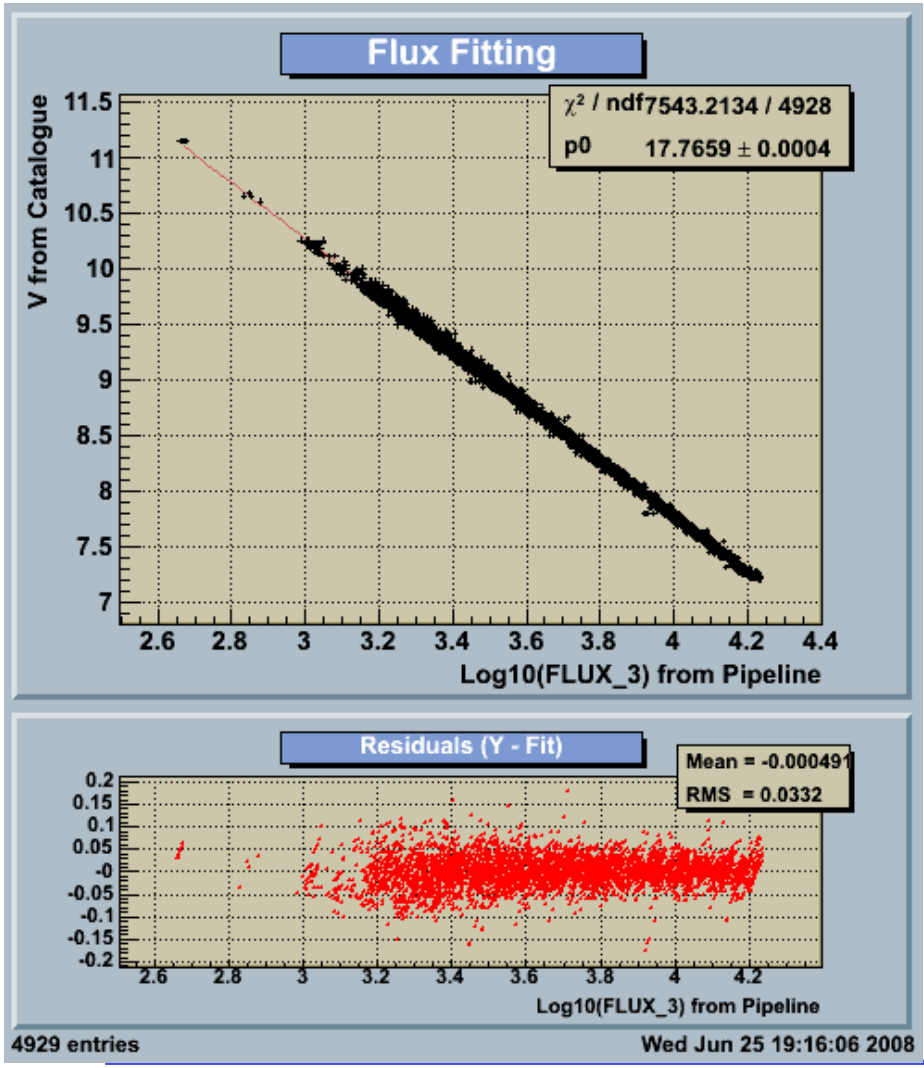
OMC photometric calibration

- The zero point of the calibration (a measure of the overall sensitivity) has become very stable.
  - The lenses are not getting darker with radiation.
  - The overall transparency of the CCD coating remains invariable.

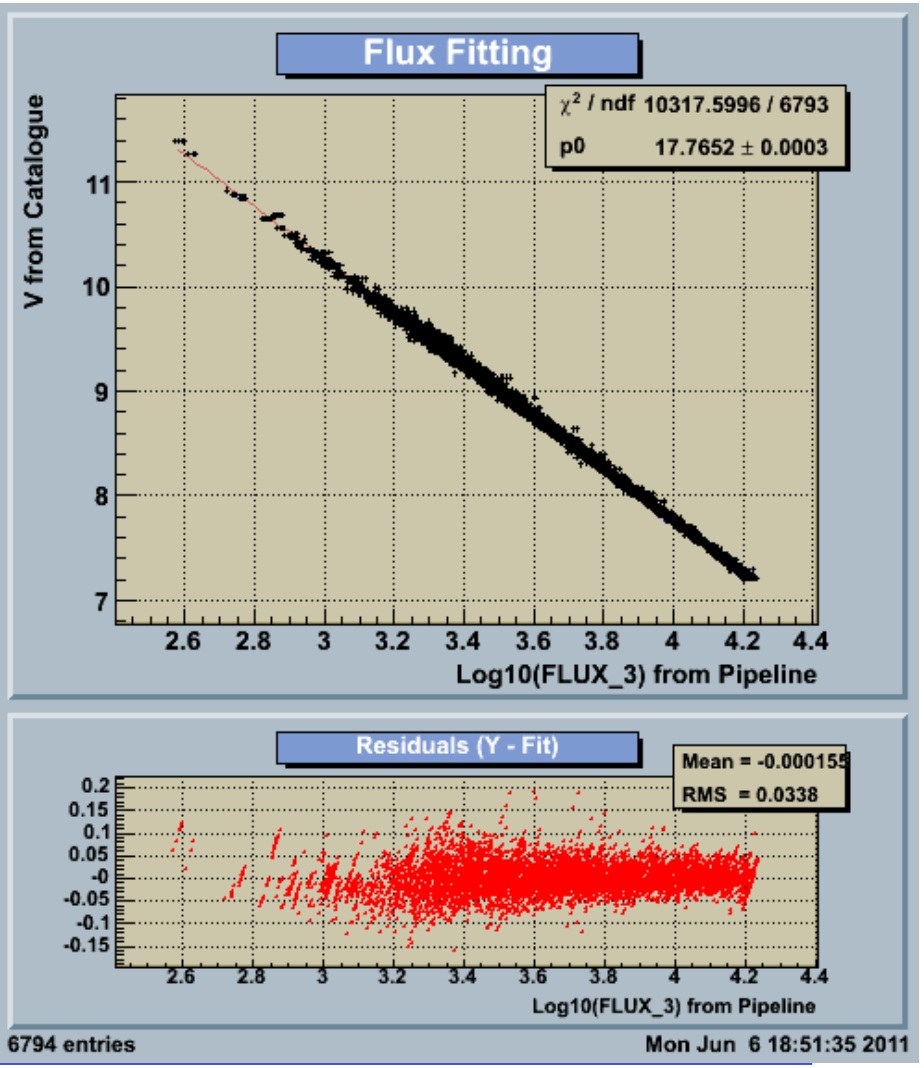


OMC photometric calibration

2008



2011



OMC Database statistics

Last 6 years

- Number of accesses: 30.170
  Accesses from LAEFF-INTA and Google/Yahoo/ MicrosoftSearch robots excluded.
- Different accessing hosts: 790
- Total number of online lightcurve pre-views: 14.793
- Total number of downloaded lightcurves: 15.377
  - *As VOTable* *4.795*

Last 12 months

- Number of accesses: 4.664
- Different accessing hosts: 310
- Total number of online lightcurve pre-views: 1.191
- Total number of downloaded lightcurves: 3.273
  - *As VOTable* *1.100*

OMC Database statistics

- We are aware of
  - ~30 science papers in refereed journals using OMC data.
  - ~60 science contributions (proceedings, bulletins,…) in ADS.

  Mostly on binaries and AGN/blazars