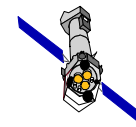


MOS monitoring

Bruno Altieri

EPIC CAL/OPS meeting

VilSpa, June 2-4, 2002

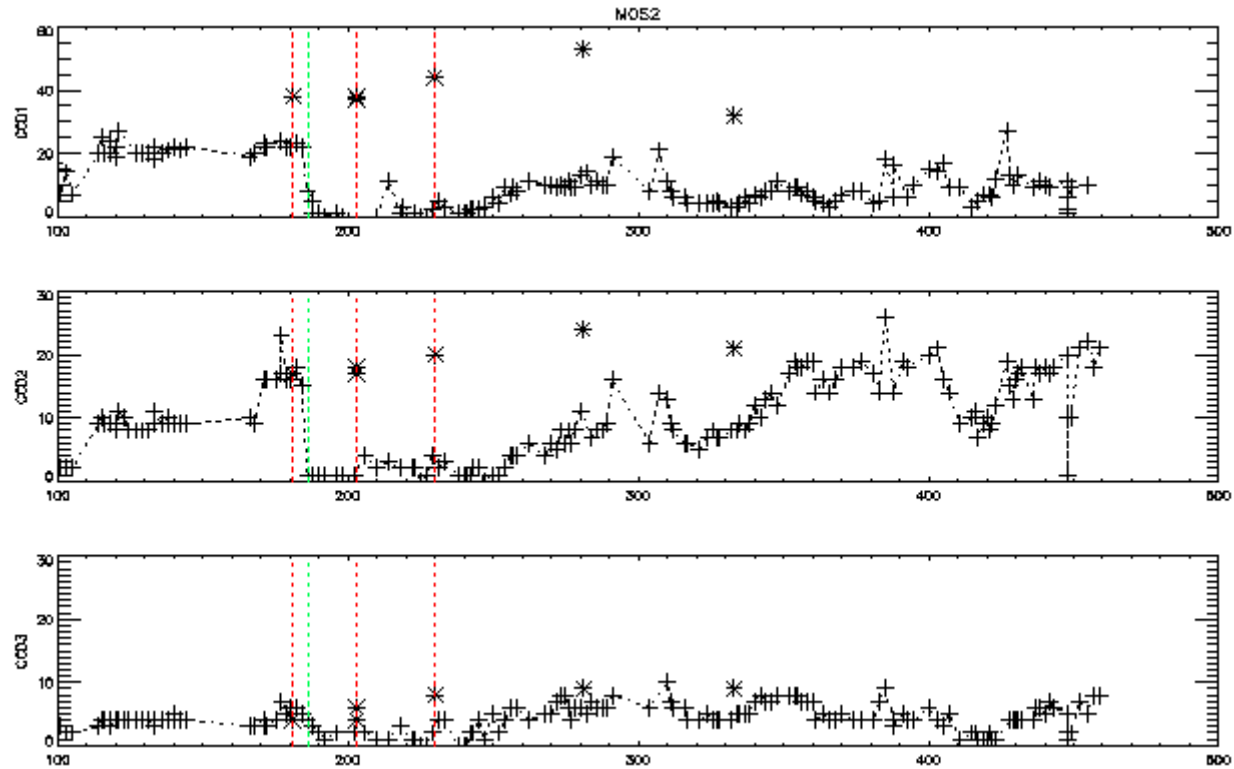


XMM-Newton

Bruno Altieri, ESA/RSSD

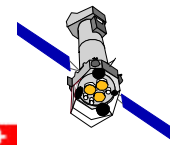
MOS bad pixels: status

- Some hot pixels have developed and shall be flagged.



MOS bad pixels: problem

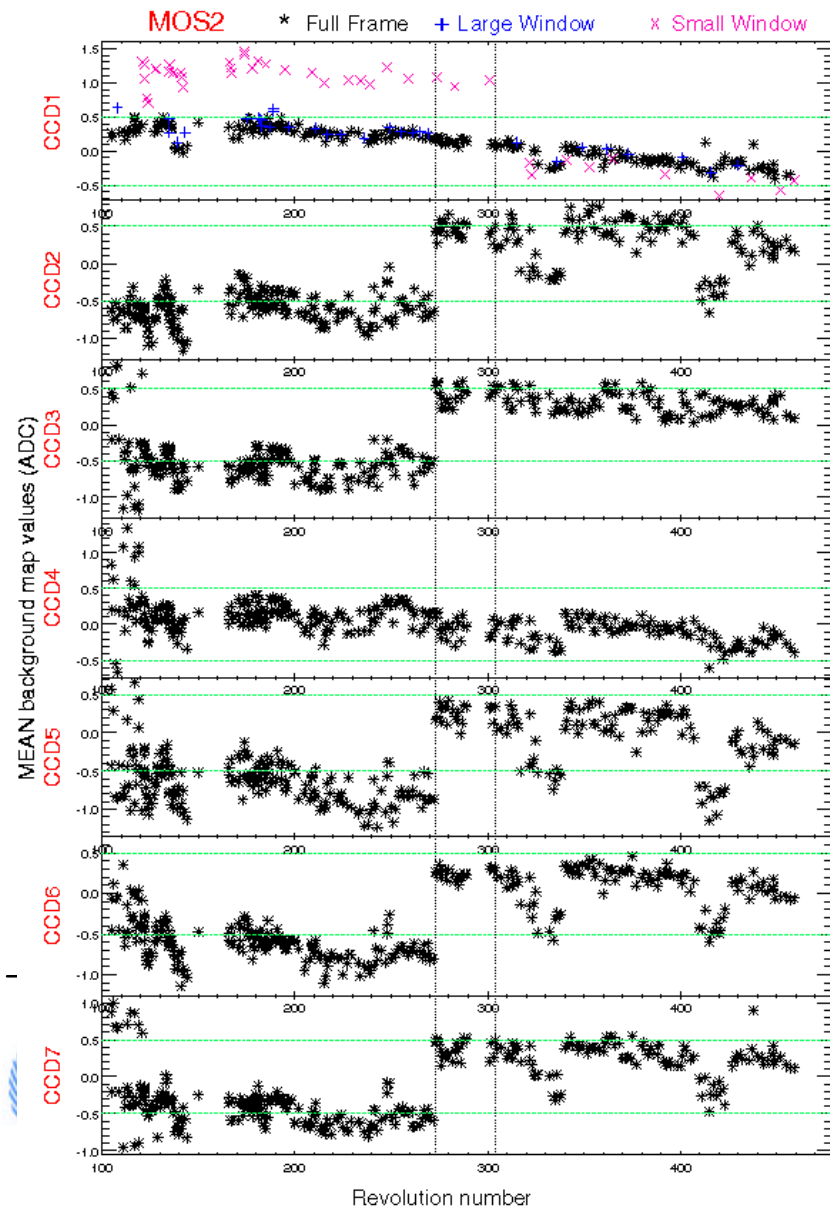
- **Limit (50) will be reached for MOS2 CCD1, with already 48 pixels flagged as bad.**
- **Hot column (RAWX=579) in MOS1 CCD6 not yet patched**
- **new dead areas spotted from the cooling test should be flagged**
- **CCFs for revs with wrong (previous) on-board tables not generated yet.**



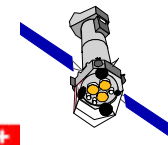
XMM-Newton

Bruno Altieri, ESA/RSSD

MOS background/offset level



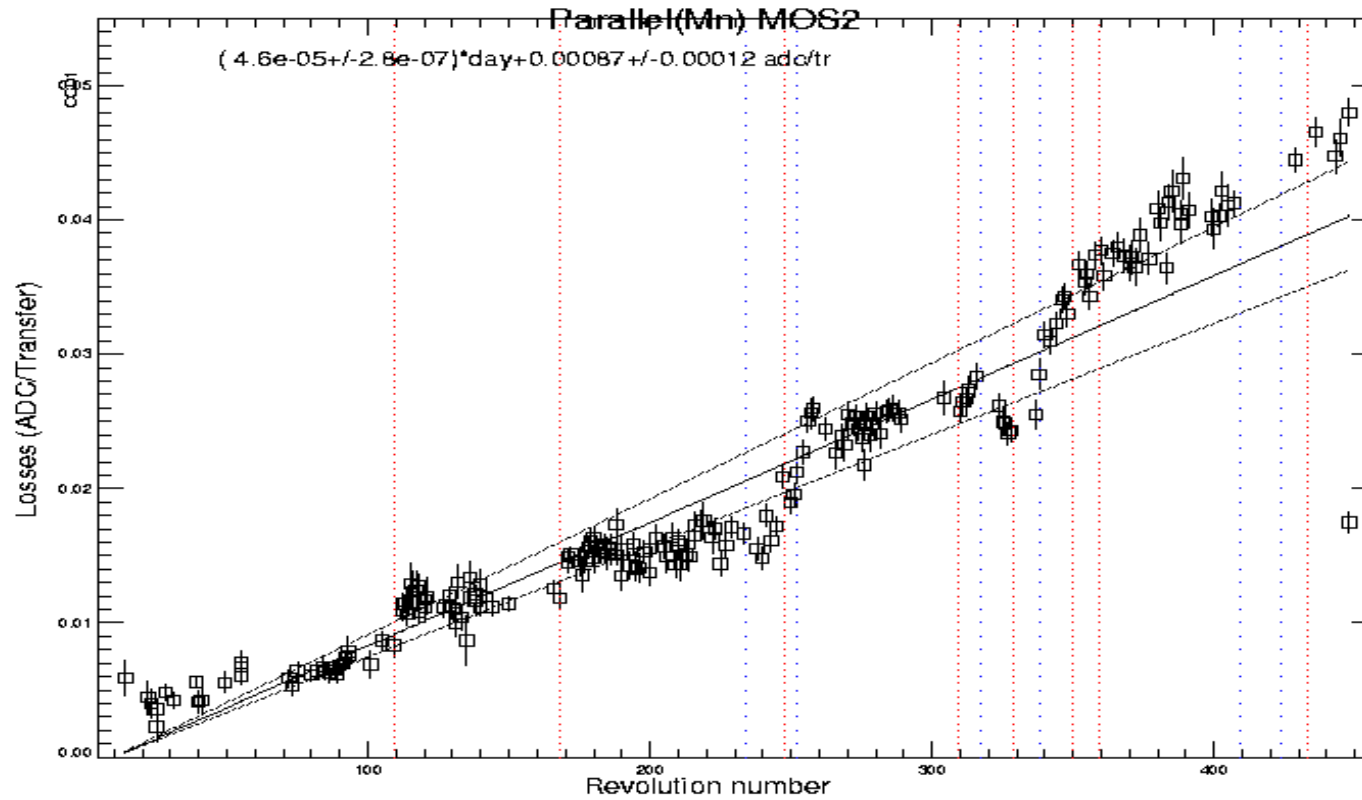
- Offset table still vastly valid
- But some long-term trend can be seen as well as the effect of eclipse, but only by 0.5-1 ADU.



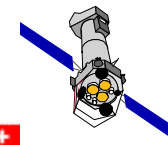
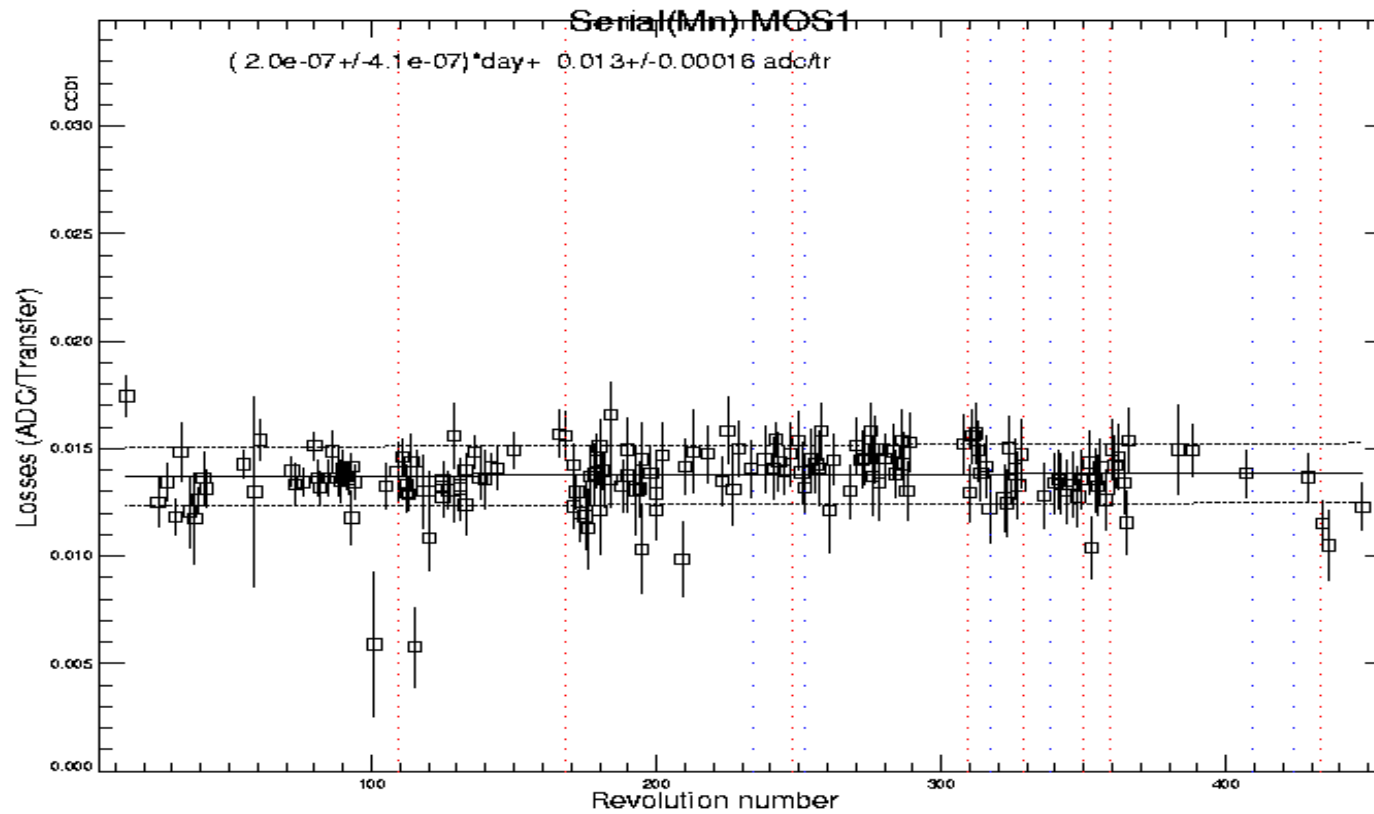
XMM-Newton

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MOS CTI monitoring: parallel



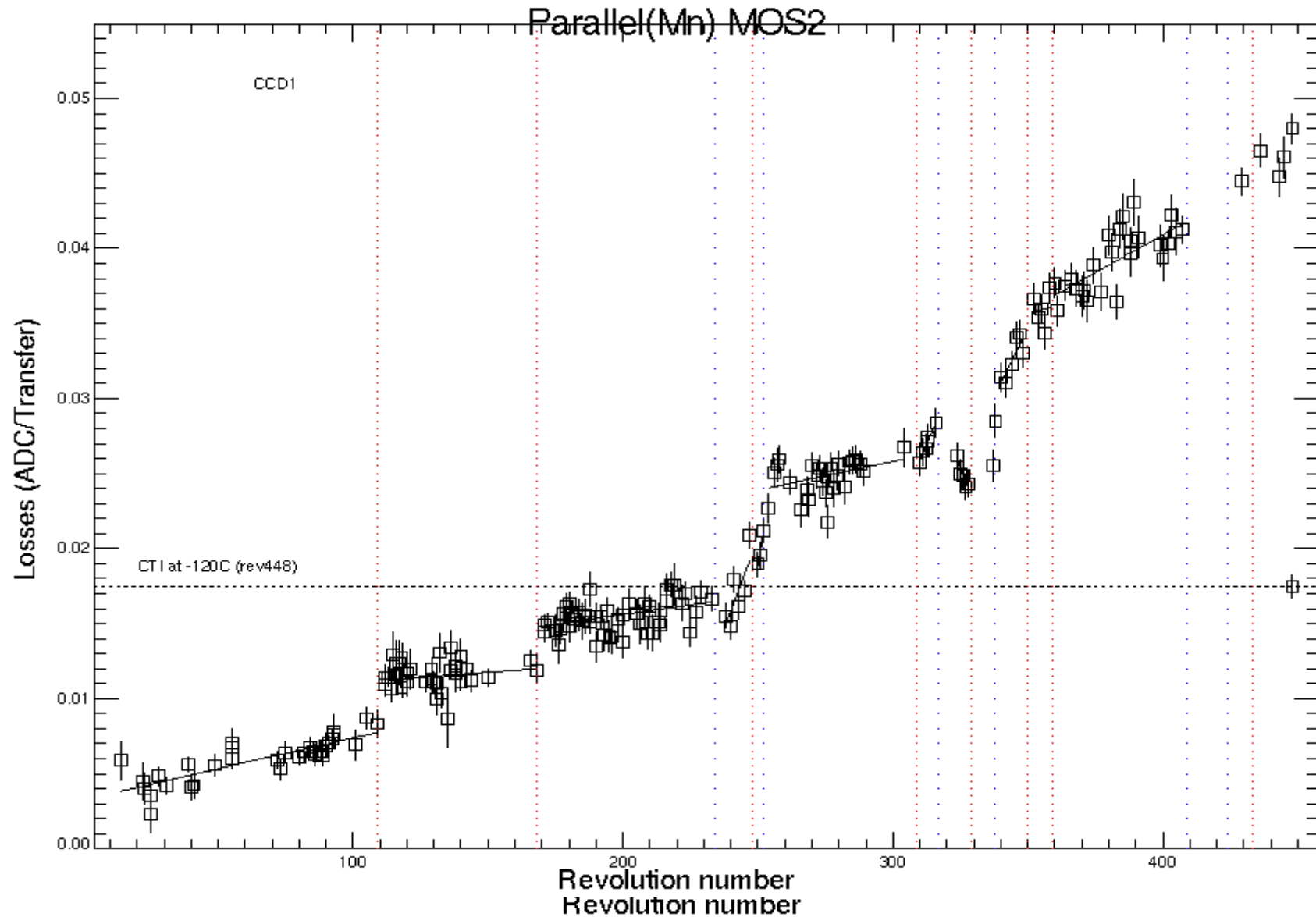
MOS serial CTI



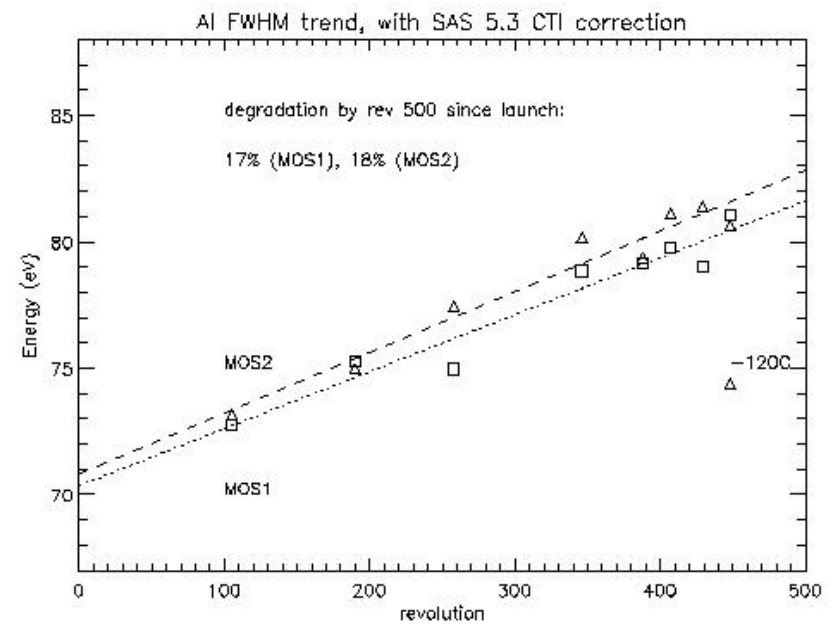
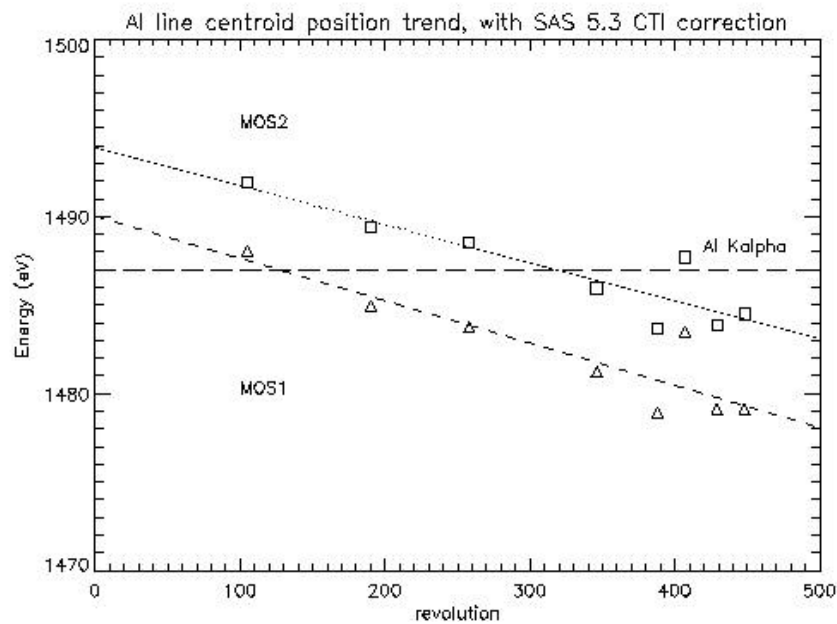
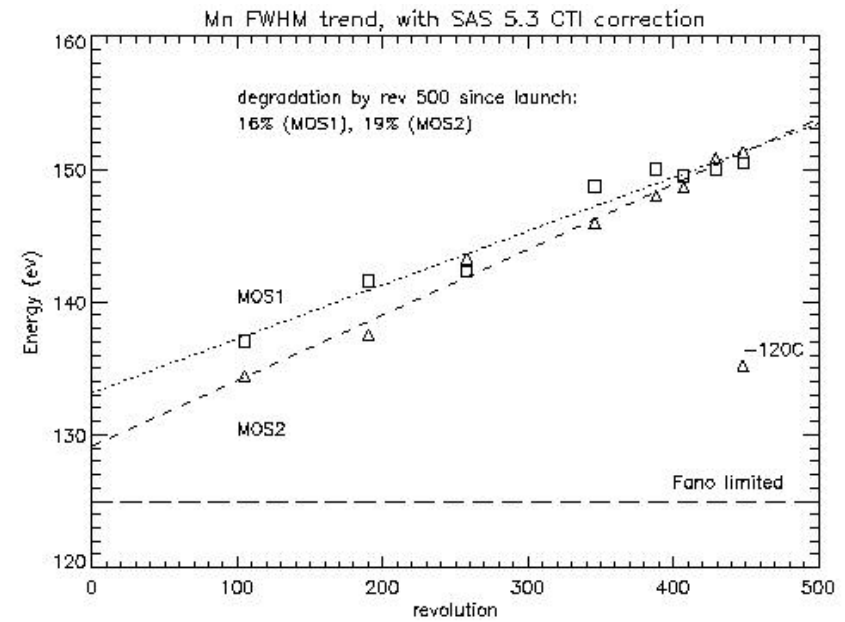
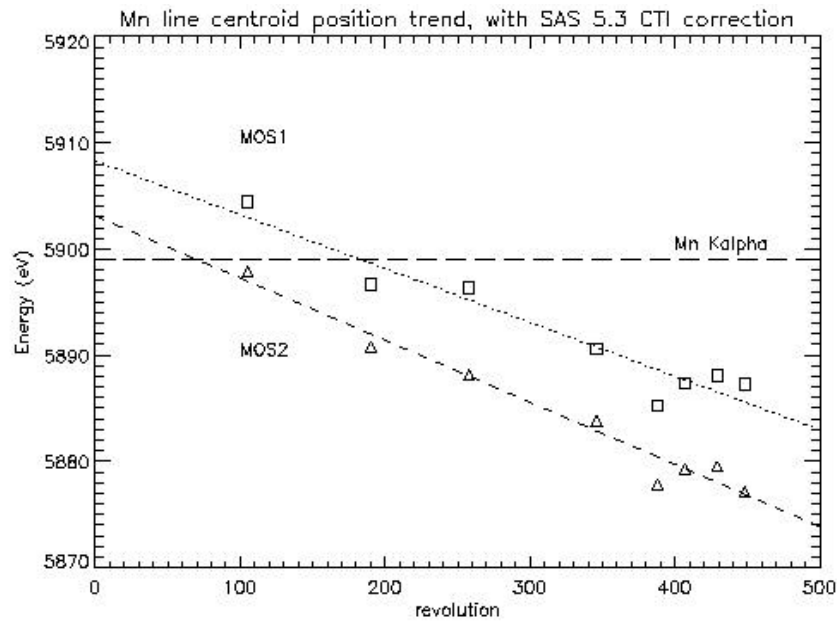
XMM-Newton

Bruno Altieri, ESA/RSSD

CCDs getting softer to radiation with time



MOS energy scale & resolution



MOS energy reconstruction

- **The MOS energy under-correction (after rev350) is now interpreted by:**
 - CTI correction to low, that leave a spatial gradient in the image (10eV in rev~400 at Mn)
 - plus gain drift (constant term) as pointed by Paul, also of the order of 10 eV at rev ~400 at Mn energies, to be corrected by a new set of MOS ADUCONV CCFs

