Update of the XMM UHB for AO2

Chapter 3 - XMM - a concise overview

Comments received from D. Lumb, U. Briel, S. Sembay,
input/help needed to update/replace/fix figures:

- Fig 4: 'The on-axis PSF of one XMM mirror (Panter)' - in-flight PSF
- Fig 5: 'Radial average of on-axis PSF (SciSim)' - in-orbit point source
- Fig 10-13: `Effective area of mirrors, combined with EPIC response'
- Fig 14: 'Total effective area of all mirror modules' - is wrong!?

Action on P. Gondoin

Update of the XMM UHB for AO2
Chapter 3.3 - European Photon Imaging Camera (EPIC)

Comments received from D. Lumb, U. Briel, S. Sembay,
input/help needed to update/replace/fix figures: by end of February!

• Fig 15: 'Field of view of EPIC cameras' - should be updated:
 - put in aim points (double bore-sight)
 - show in-orbit picture, or
 - schematic view of all 3 cameras showing relative orientations
• Fig 16, 17: 'Sketch of MOS & pn layout'
 - should be replaced by figure that can be scaled (from CAL API,
   CCF?)
 - indicate RGS dispersion direction
Fig. 15-17 - action on D. Lumb
• Fig 18: 'MOS & pn energy resolution as function of energy (SciSim)'
 - replace with real data or use Fig.6 of Briel et al. SPIE 1998, p.48
MOS - action on G. Griffiths, pn - action on U. Briel

Update of the XMM UHB for AO2
Chapter 3.3 - European Photon Imaging Camera (EPIC) cntd.

- Fig 19: 'Quantum efficiency of pn and MOS (SciSim)'
  - pn wrong! *MOS - action on S. Sembay, pn - action on U. Briel*
  - show real data, or use CAL file, or Fig.5 of Strueder et al. 2001
  - also **text missing**: there should be a paragraph describing the QE as function of energy and event-type (to be written by F. Haberl & K. Dennerl ?)   *action on U. Briel/K. Dennerl*
- Fig 20, 21: 'MOS & pn effective area depending on filter'
  - update with real data? *Action on volunteer*
  - **question**: should open filter position be offered (OCR)? *No!?*
- Fig 24-26: 'pn sensitivity limits (SciSim)'
  - plots should be based on real data
  - new figures: spectra at high/low background
  - new figure: typical time variation of the background
- Text update: Section 3.3.9 'EPIC's sensitivity limits'
  - discuss low/high background, illustrate effect of soft protons

Action to update EPIC sensitivity limits (text & figs) on S. Molendi