XMM-Newton EPIC PN Calibration Overview

U Briel
MPE Garching

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STATUS OF THE EPIC/PN CALIBRATION

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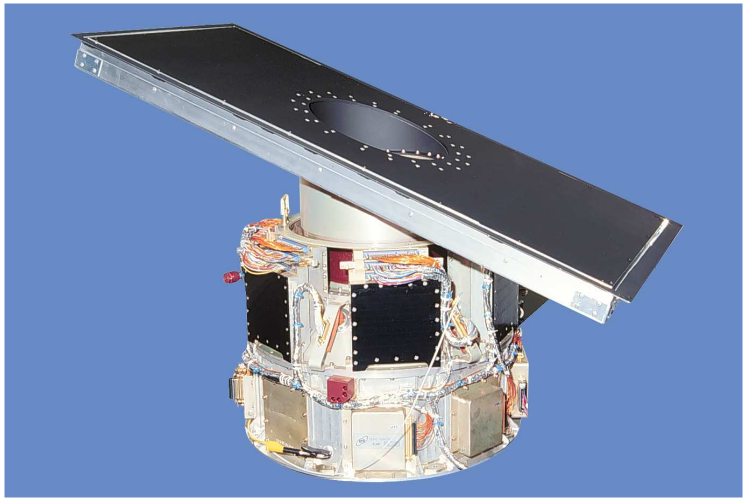
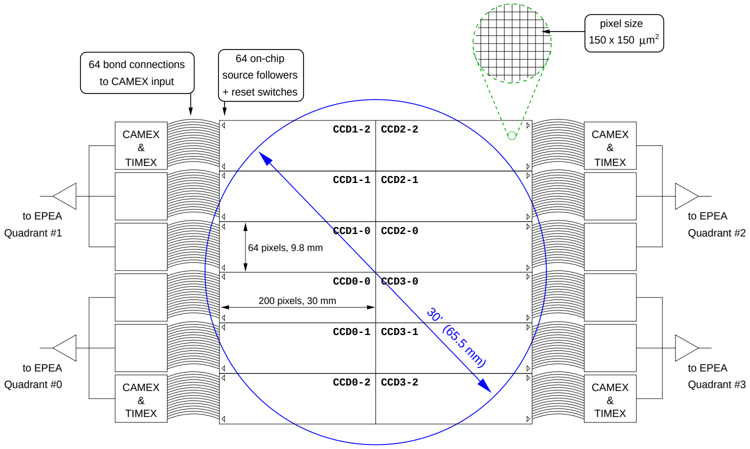
OVERVIEW

- short description of the pn-camera including the different modes
- in-orbit calibration philosophy
- calibration status/results
  - imaging capabilities
  - effective area
  - charge transfer inefficiency
  - detector response matrix
  - background
- summary

DESCRIPTION OF THE PN-CAMERA





Photograph of the pn camera

- Detector housing
- Electronic boxes
- Radiator to keep CCDs at a temperature of -90 DegC

Layout of the CCD focal plane

- 4 redundant quadrants
- each with 3 CCDs of 1×3 cm^2
- each with 64×200 pixels
- all CCDs on **one** Silicon wafer