

# CCD Issues Working Group

## Progress Report and Plans for IACHEC 2012

# Purpose of Group

- Provide a forum for cross-mission discussion and comparison of CCD-specific modeling and calibration issues
- Produce documents (SPIE level) discussing these comparisons, pros/cons of each approach
- Produce a document (A&A level?) discussing lessons learned & best practices for CCD-based instruments, hopefully useful for future missions

# IACHEC 2011 Meeting Summary

- Tour of CCD WG wiki pages
- Discussed calibration of timing modes
  - XRT (Andy), pn (Matteo), ACIS (Catherine)
- Briefing on ACIS/XIS performance evolution comparison study (very preliminary)
- Future plans
  - Continue to populate wiki
  - Timing modes to dos
  - A comparison source, timing vs standard mode?

# Progress since IACHEC 2011

- “CTI evolution and its impact on spectral resolution in different orbital environments”: ACIS/XIS performance evolution comparison study
  - Preliminary results presented at HEAD & Suzaku meetings
  - Paper draft nearly complete

# Plans for IACHEC 2012

- New CCD simulator code for Swift XRT (Andy B.)
- Developing an event simulator for EPIC for evaluating and correcting pileup (Matteo)
- ACIS topics (as interest and time allows)
  - CTI-induced QE evolution
  - XIS/ACIS performance comparison study
  - ACIS as its own radiation monitor
- Other topics welcome!
  - Anything that didn't fit into Monday morning's summary talks?