

Heritage Working Group meeting

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Scope of the WG

Preserve the IACHEC corpus of knowledge, know-how and best practices for the benefit of future missions and the community at large

- provide a platform for the discussion of experiences coming from operational missions
- facilitate the usage of good practices for the management of pre- and post-flight calibration data and procedures, and the maintenance and propagation of systematic uncertainties (the latter task in strict collaboration with the "Systematic uncertainties" IACHEC Working Group)
- document the best practices in analysing high-energy astronomical data as a reference for the whole scientific community
- ensure the usage of homogeneous data analysis procedures across the IACHEC calibration and cross-calibration activities
- consolidate and disseminate the experience of operational missions on the optimal calibration sources for each specific calibration goal

from the WG charter ...

Past activities (completed, unless otherwise specified)

- Maintain list of calibration documents on the Wiki
- JATIS paper on in-flight calibration plans
- Document (Madsen paper) best-practise data analysis
 - Statistical methods covered by Calibration Uncertainties WG
 - WG available and willing to repeat the analysis for other papers
- IACHEC Source Database (**on-going**)
- IACHEC knowledge database (**not done**)

Optics calibration WG?

- Goal: provide a forum for experience interchange on the calibration of X-ray optics
 - "Optics counterpart" to the "*Detection and background WG*"
- A call for interest in 2017 has not been very successful
- M. Guainazzi/S. Semkova draft a proposal, and contact individual members of the IACHEC mailing list with expertise in development and calibration of X-ray optics

Nothing has happened on this so far

13th IACHEC Summary

Special Session on X-ray optics calibration

- Proposal for the 15th IACHEC
 - Must be approved by WG Chairs
- The top-bottom, remote approach has not worked so far
- New WGs start as interest groups at IACHEC meetings
- Need to involve experts besides the IACHEC
- Iteration with members of other WGs beneficial/needed (e.g., Contamination, Coordination)
- No obvious topic for a special session at the 15th IACHEC

Special session program (3:30 + 0:30 break)

1. Ground-based optics calibration plans (1:15)
 - Chandra, XMM-Newton, eROSITA, *Hitomi*, SVOM
2. Lesson learned on ground- from in-flight calibration
 - *Chandra*, XMM-Newton (0:45)
3. Identify main technical issues for future missions (0:45)
 - *Athena*, Lynx
4. Primary and secondary standard for PSF and vignetting (0:30)
 - Moderated discussion (based on a review of in-flight plans)
5. WG charter and plans (0:15)

Next steps

1. Discuss this proposal in the WG (we are doing it now)
2. Seek approval from the WG Chairs
3. Set-up a SOC
 - Heritage and Contamination WG Chairs + 3 members from the Heritage WG
4. Organize