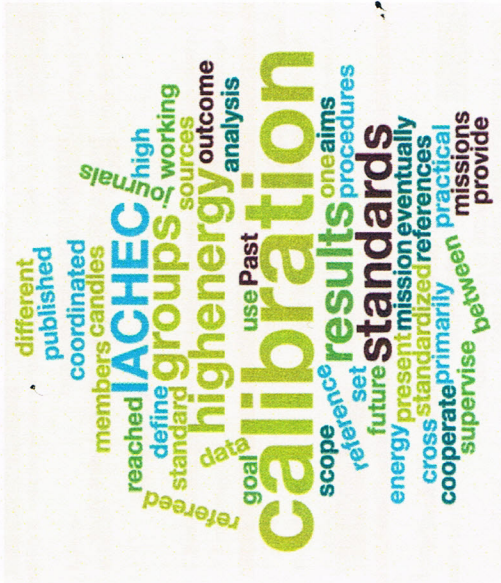


12th IACHEC Meeting

International Consortium for High Energy Calibration



Program



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Committee on Space Research



NuSTAR Nuclear Spectroscopic Telescope Array



Chandra Science Center and the
Smithsonian Astrophysical Observatory



NASA Goddard Space Flight Center

UCLA Lake Arrowhead Conference Center
Lake Arrowhead, California, USA

March 27th to 30th, 2017

Session I Monday, 27 March 08:40-14:00

Calibration status of operational missions

Chair: S.Sembay

IRIS meeting room

08:40-08:50	Welcome
08:50-09:00	In memoriam Prof. Neil Gehrels
09:00-09:20	K.Forster NuSTAR calibration status
09:20-10:20	Astrosat S.Chandra The status of the calibrations for the Soft X-ray Telescope (SXT) on-board AstroSat
10:20-10:40	M.C.Ramadevi [*] Coffee/tea break
10:40-11:00	J.Sun (B.Wu) Preliminary in-orbit observation results and calibration of POLAR
11:00-11:20	C.Markwardt NICER - status and calibrations
11:20-11:40	X.Li (Y.Liu) The calibration status of HXMT
11:40-12:00	L.David Chandra Calibration Status
12:00-13:00	Lunch break

Calibration status of operational missions

Chair: K.Madsen

IRIS meeting room

13:00-13:20	L.Natalucci INTEGRAL/IBIS calibration status
13:20-13:40	J.de Pila Empirical RGS effective area calibration using blazar spectra
13:40-14:00	K.Kuntz Solar Wind Charge Exchange (SWCX) and New Missions
14:00-14:20	S.Sembay Microprobe optics; application - modelling and calibration

Session II Monday, 27 March 14:30-16:15

Working Groups meet

CCD I. - ACIS and EPIC

14:30-14:50	S.Molendi[*] An in-depth analysis of the EPIC-MOS instrumental background
14:50-15:10	K.Dennerl An empirical method for improving the XMM-Newton/EPIC-pn RMF and ARFs
15:10-15:30	T.Gaetz Chandra ACIS I3 response width
15:30-15:50	R.N.Durham ACIS Gain Studies - Time and Location Dependences
15:50-16:10	T.Gaetz Chandra ACIS background

Coordinated observations

14:30-14:50	K.Madsen Absolute Crab flux
14:50-15:10	K.Madsen Dust Scattering Halo's

16:15-16:45 Coffee/tea break

Session III Monday, 27 March 16:45-18:30

Working Groups meet

Heritage

Violet meeting room

High-resolution

Alumni meeting room

16:45-17:05	N.Schultz Calibration of High Resolution X-Ray Spectrometers
17:05-17:25	V.Kashyap Capella with Chandra and XMM
18:30-20:00	Dinner

Session IV Tuesday, 28 March 09:00-10:45

Working Groups meet

Galaxy clusters

Alumni meeting room

Thermal SNR

Violet meeting room

10:45-11:10 Coffee/tea break

Session V Tuesday, 28 March 11:10-14:40

Hitomi calibration I. - General overview and SXS

Chair: E.Miller

IRIS meeting room

11:10-11:40	R.Petre Lessons Learned from Hitomi In-Flight Calibration
11:40-12:00	M.Eckart Overview of the Hitomi Soft X-ray Spectrometer
12:00-13:00	lunch break
13:00-13:20	S.Nakashima Hitomi observation of the Perseus cluster
13:20-13:40	M.Leutenegger Calibration of the line spread function and gain scale of the Hitomi SXS
13:40-14:00	M.Eckart Effective Area Calibration of the Hitomi SXS
14:00-14:20	M.Tsujimoto Hitomi SXS in-flight calibration with Crab
14:20-14:40	A.Foster Atomic data - What we learned we don't know from Hitomi

Session VI Tuesday, 28 March 14:40-15:40

Cross-calibration status

Chair: C.Grant

IRIS meeting room

14:40-15:00	M.Guainazzi Status of the area cross-calibration project
15:00-15:20	H.Marshall Status of the concordance project
15:20-15:40	C.Heinitz Cross-calibrating the XMM EPIC effective areas for a default empirical correction
15:40-16:10	Coffee/tea break

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Session VII Tuesday, 28 March 16:10-17:55

Working Groups meet

Calibration Uncertainties

Timing

16:10-16:30 S. Koyama

16:30-16:50 Y. Terada

16:50-17:10 K. Oshimizu

17:10-17:30 S. Koyama

18:30-20:00 Meeting Banquet

Violet meeting room

Alumni meeting room

Time assignment anomalies of Suzaku

Summary of Hitomi Timing calibration

Verification of GPS synchronization function for the time assignment of Hitomi

In-Orbit Timing Calibration of SXS

Session VIII Wednesday, 29 March 09:00-10:20

Hitomi calibration II.

Chair: M. Guainazzi

09:00-09:20 T. Sato

09:20-09:40 I. Mitsuishi

09:40-10:00 K. Hagino

10:00-10:20 H. Takahashi

10:20-10:50 Coffee/tea break

IRIS meeting room

In-flight Calibration Status of the Soft X-ray Telescopes (SXTs) onboard the Hitomi Satellite

In-orbit Calibration Status of the Hard X-ray Telescopes (HXTs) on board Hitomi

In-flight calibration of Hard X-ray Imager (HXI) onboard Hitomi

Current status of Soft Gamma-ray Detector (SGD) onboard Hitomi

Session IX Wednesday, 29 March 10:50-12:00

Cross-calibration consensus forum

Chair: P. Plucinsky

10:50-11:10 J. Nevalainen [*]

Grand IACHEC cross-calibration forum: instructions for use

11:10-12:00

moderators: M. Guainazzi, Round table on progress on the cross-calibration status

V. Kashyap, & H. Marshall

12:00-13:00

lunch break

Session X Wednesday, 29 March 13:00-14:45

Working Groups meet

Contamination

13:00-13:20 H. Marshall

13:20-13:40 A. Bogdan

13:40-14:00 K. Mori, H. Uchida, E. Miller

14:00-14:45 Open for additional presentations and discussion

White Dwarfs / INS

14:45-15:15

Coffee/tea break

Alumni meeting room

The New Chandra ACIS Contamination Model

Characterizing the contaminant on Chandra ACIS using Abell 1795 observations

Discussion of Hitomi SXT Contamination Measurements

Open for additional presentations and discussion

Violet meeting room

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Session XI Wednesday, 29 March 15:15-17:00

Working Groups meet

CCD II. - Hitomi/SXI

15:15-15:35 K. Mori

15:35-15:55 H. Uchida (K. Mori)

15:55-16:15 A. Beardmore

Alumni meeting room

Hitomi/SXI overview

Hitomi/SXI on-board calibration

Deferred charge released from charge traps in Swift-XRT WT mode observations

Non-Thermal SNR

18:30-20:00

Dinner

Violet meeting room

Session XII Wednesday, 29 March 20:00-22:20

A look at the future

Chair: H. Marshall

20:00-20:20 V. Savchenko

20:20-20:40 V. Burwitz

20:40-21:00 W. Baumgartner

21:00-21:20 C. Tenzer

21:20-21:40 M. Tashiro (Y. Terada)

21:40-22:00 M. Guainazzi

22:00-22:20 M. Markevitch

IRIS meeting room

Calibration of INTEGRAL response to impulsive transients from all sky

Status of the calibration of eROSITA

Calibration and Data from the International X-ray Polarization Explorer (IXPE)

Grazing angle soft proton focusing experiments with X-ray mirrors

Status of the X-ray Astronomy Recovery Mission (XARM)

Calibration plans for Athena

Cal X-1: an in-orbit absolute area calibration standard

Session XIII Thursday, 30 March 08:45-12:15

Working Groups report

Chair: K. Forster

08:45-09:00

White Dwarfs and Isolated Neutron Stars

09:00-09:15

Timing

09:15-09:30

Thermal SNR

09:30-09:45

Non-Thermal SNR

09:45-10:00

High Resolution

10:00-10:15

Heritage

10:15-10:30

coffee/tea break

10:30-10:45

Coordinated observations

10:45-11:00

Contamination

11:00-11:15

Clusters of galaxies [*]

11:15-11:30

CCD

11:30-11:45

Calibration uncertainties

11:45-12:00

Meeting closure

12:00-13:00

Lunch

[*] = Remote presentation

presentation given by (name)

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