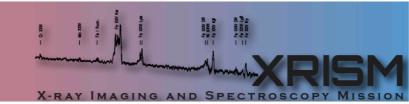


Thermal SNRs WG Report

16th IACHEC Meeting
Parador de La Granja (Spain)
May 16, 2024

IACHEC 20240516 Plucinsky

Thermal SNRs WG Agenda



Cas A:

"What to expect from the XRISM observations of N132D and Cas A"

Paul Plucinsky
"The development and use of a standard model of Cas A for ACIS calibration"

Nick Durham
"Swift, XMM, RXTE, NuStar, & NICER fits to Cas A"

Craig Markwardt

1 E0102.2-7219:

"E0102 observations with Xtend" Tomokage Yoneyama

"Using E0102 to improve the eROSITA ARFs and RMFs and XMM RMFs" Konrad Dennerl "Monitoring SN1987A with XMM and eROSITA" Chandreyee Maitra

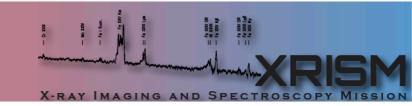
N132D:

"An update on the RGS analysis of N132D"

"An updated model for the Fe-K region in N132D from XMM data"

Martin Stuhlinger Adam Foster

Thermal SNRs WG Goals



Long Term Goal:

- The IACHEC model for 1E 0102.2-7219 (Plucinsky et al. 2017) is widely used
- We should/want to develop similar models for Cas A and N132D

Goal for the Next Year:

• Two smaller groups will work on the Cas A and N132D models

Cas A:

- Nick Durham, Andy Beardmore, Craig Markwardt, Paul Plucinsky, others?
- use existing models to develop a single model
- possibly use XRISM results to inform the model

N132D:

- Martin Stuhlinger, Adam Foster, Brian Grefenstette, Konrad Dennerl, Paul Plucinsky, others?
- Adam will finalize model for Fe-K region based on pn and MOS data
- Martin will work on model from 0.3-1.5 keV, we might need to consult the plasma model experts for some of the regions that are poorly fit
- XRISM data might help from 2.0 keV and up