Thermal SNRs WG Report

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

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" — **Martin Stuhlinger**
"An updated model for the Fe-K region in N132D from XMM data" — **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