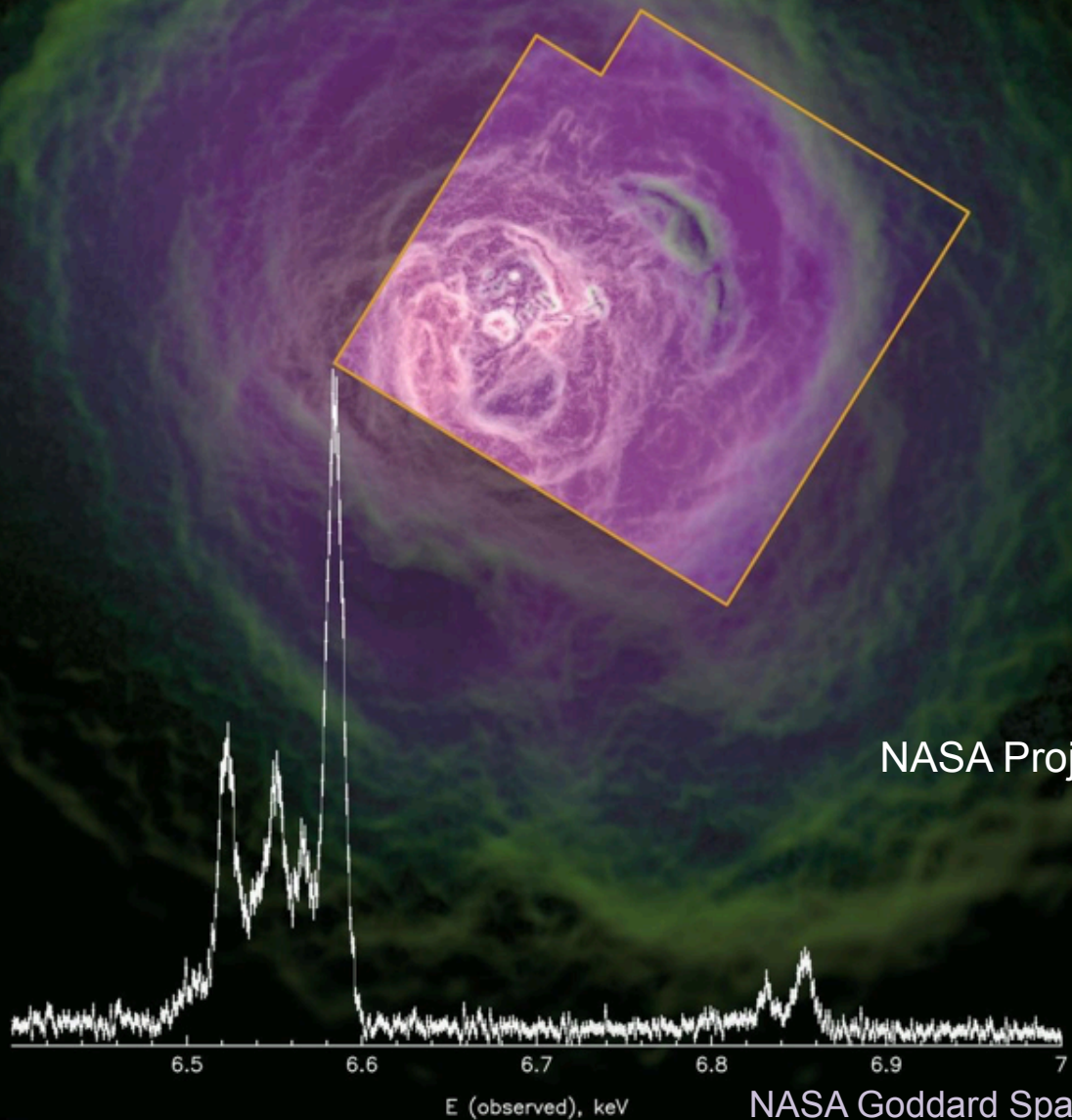


# X-ray Astronomy Recovery Mission (XARM)



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NASA Project Scientist





# What is XARM?

- XARM is a JAXA/NASA mission intended to recover some of the science lost as a consequence of the Hitomi failure
- X-ray SIG was instrumental in NASA's decision to participate in XARM
- XARM will consist of:
  - Resolve* (SXS) – X-ray calorimeter instrument with 5-7 eV resolution across 0.3-12 keV band
    - PI is Richard Kelley (GFSC)
  - Xtend* (SXI) – large field of view CCD imager
    - PI is Kiyoshi Hayashida (Osaka)
- Each at focus of X-ray mirror with  $\sim 300 \text{ cm}^2$  at 6 keV and 1 arcmin angular resolution
- NASA will provide Resolve detector system, electronics, and both X-ray mirrors
- ESA has now agreed to participate



# XARM Status

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- In Japan:
  - Pre-project initiation review on Sept 12 Location: Japan (ISAS?)
  - Selection of spacecraft vendor and project initiation by January 2018
- In US:
  - US role is identical to Hitomi – all hardware is “build to print”
  - Hardware development fully funded and underway
  - PDR/CDR in November/December 2017
  - Both sides currently working towards launch by end of JFY 2020 (March 2021)



## Opportunities for Community Participation in XARM

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- Announcement describing community involvement opportunities is being jointly released by JAXA and NASA this week.
  - Announcement has been signed by Paul Hertz and Prof. Tsuneta (ISAS)
- Announcement describes three opportunities:
  - Participating Scientists
  - Participation in PV target teams
  - Guest Observer program
- The ROSES call for Participating Scientists should be released by the end of August; selections by February



# NASA-sponsored Participating Scientists selection

- Solicitation for NASA-sponsored Participating Scientists is in draft form
- It will be released as a ROSES appendix
- Proposal and selection process will follow NASA guidelines (e.g., 90+ day open period, external proposal review)
- A two step process being used – notices of intent required
- Allows set up of unconflicted review panel, provides an early look at applicants
- Timescale:
  - 20 August – Text complete and in approval cycle
  - 31 August – Release of announcement
  - 10 October – “Notices of intent” due
  - 1 December – Proposals due
  - 20 January – Names of nominees sent to JAXA for consultation
  - 1 February – Selections announced