

Name: _____ Date: _____ Period: _____

INDEPENDENT PRACTICE WITH HERA- Student Sheet

Directions:

- Now it is time to explore the images from ROSAT using the HERA program.
- You will open each of the “Fits” files and see if you can manipulate them using the tools to uncover new information about the Supernova Remnant.

Activity 1: Manipulation of Rosat .25 KeV

- Open image Rosat.25KeV using Pow Plot
- Manipulate the image to look for new detail
- Record the manipulations and results in the chart as you work
- Answer the questions after completing the manipulations of the image.

Manipulation Made (duplication, color change, scale change, etc.)	Results & Observations of Image

Activity 1 Questions:

1. Describe whether or not you feel manipulation of the image was helpful or not helpful to you in looking for new information in the Supernova Remnant (SNR). Be specific with examples from your observation notes.

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Activity 2 Questions:

1. Describe whether or not you feel manipulation of the image was helpful or not helpful to you in looking for new information in the Supernova Remnant (SNR). Be specific with examples from your observation notes.

2. Elaborate on which of the image manipulations was most helpful and what resulted from that manipulation of the SNR image.

3. Explain if there anything visible in the image after manipulation that was not visible to you before manipulation. If so, what does it appear to be?

Activity 3: Manipulation of Rosat 1.5 KeV

- Open image Rosat 1.5KeV using Pow Plot
- Manipulate the image to look for new detail
- Record the manipulations and results in the chart as you work
- Answer the questions after completing the manipulations of the image.

