



ESAC 2017 JWST Workshop



MIRI Imaging Observations of SN1987A.
Sarah Kendrew, Macarena Garcia Marin, Stacey Bright.
Based on Margaret Meixner and Patrice Bouchet GTO
program

APT hands-on experience

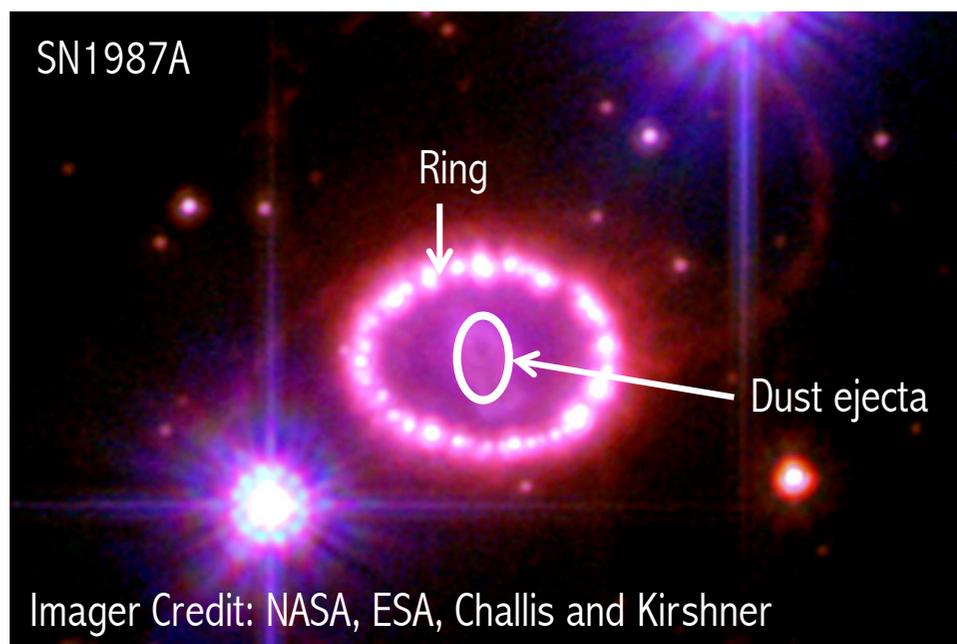


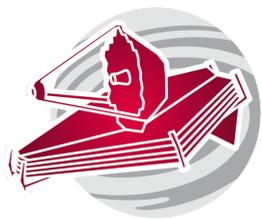
Overview



Goal: Create an APT program to observe SN1987A with the MIRI imaging. The imager will cover both the central source and the ejecta.

You should use the output of the SN1987A MIRI Imager ETC exercise as input to build up this program.





APT: Getting Started



Create a new JWST proposal (File → New → New JWST proposal)

Investigate the Proposal Information Tab (you can leave this for the end and focus on the more technical part of the proposal first)

Target Definition: Under the Targets Tab add a “fixed target” and search for SN1987A. In this case there is no need for background observations (i.e. no need to associate a background target)





APT: Define Observations



Under the Observations tab: Create a New Observation Folder. This will be always needed for each set of instruments/observing modes/configurations. When submitting your proposal the observation summary should be filled in. For the sake of this exercise that step is not needed.

Click on the Observation and fill in all the information:

Instrument, template to use, target, MIRI Subarray.

Dither points, filters, readout mode and exposure times should be consistent with those defined in the ETC exercise.



Use the Aladdin visualization tool with provided fits file and the MIRI footprint. Do you need any PA constraint?



APT: Observation Scheduling



Highlight the Observation folder and run the Visit Planner.

When can the program be scheduled? Go to the visit planner menu and run smart accounting to remove unnecessary overheads.

Review the program.

Do you have errors or warnings? If yes, are they expected? Can you “fix” any?

