

GIANO-B

CURRENT STATUS

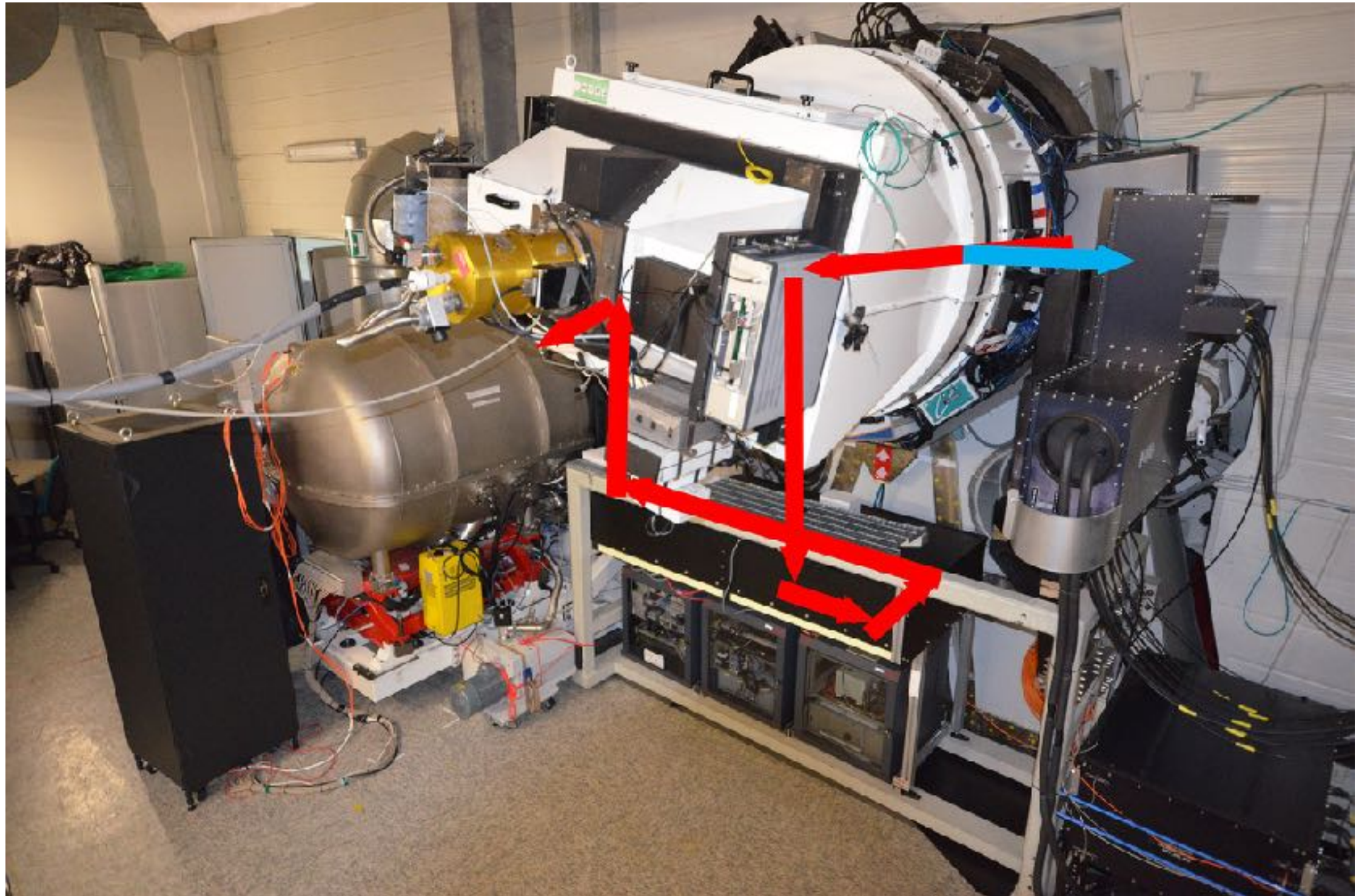
GIARPS Team

FGG-TNG, OA Padova, Arcetri, Palermo, Brera

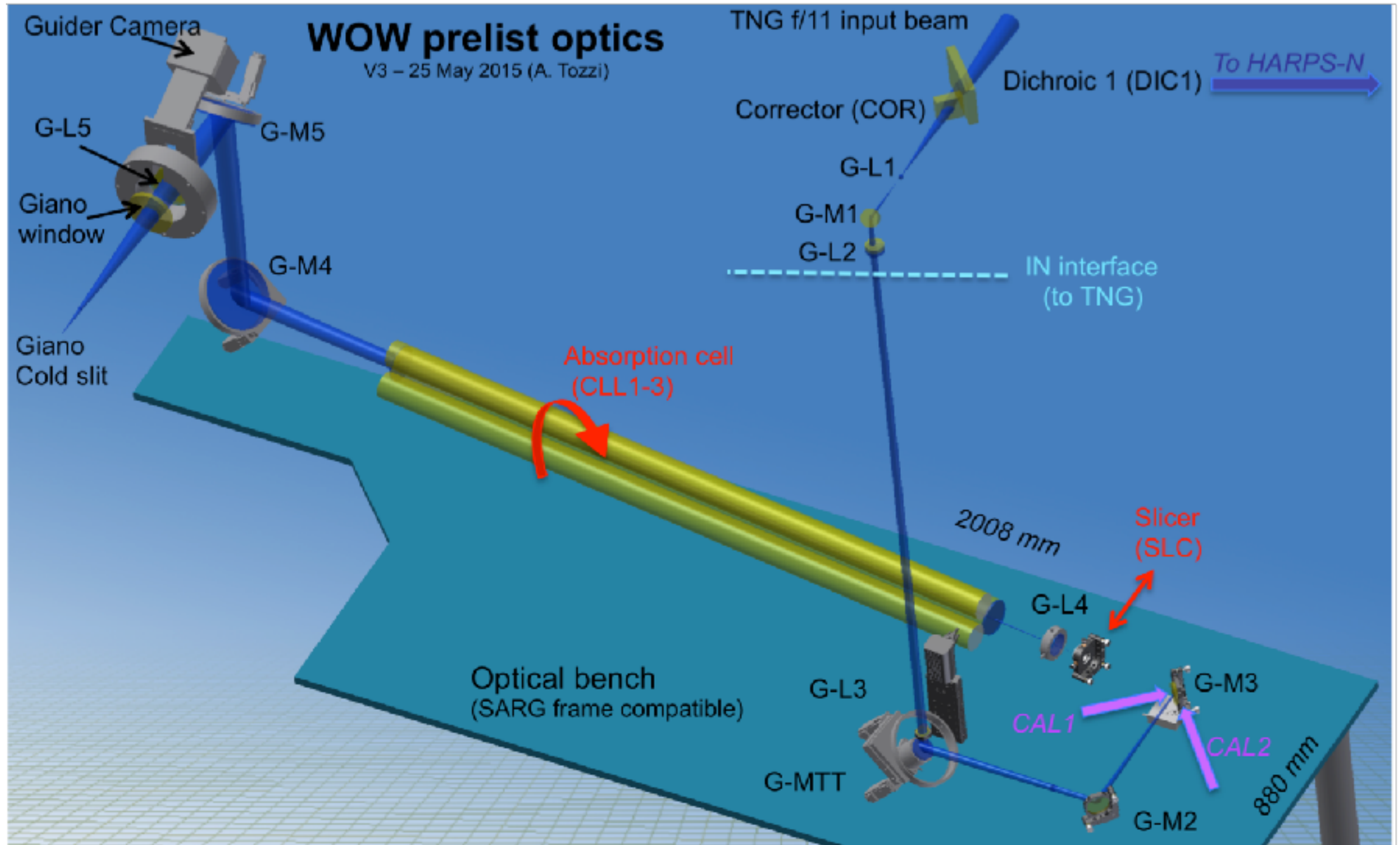
The usual photo...



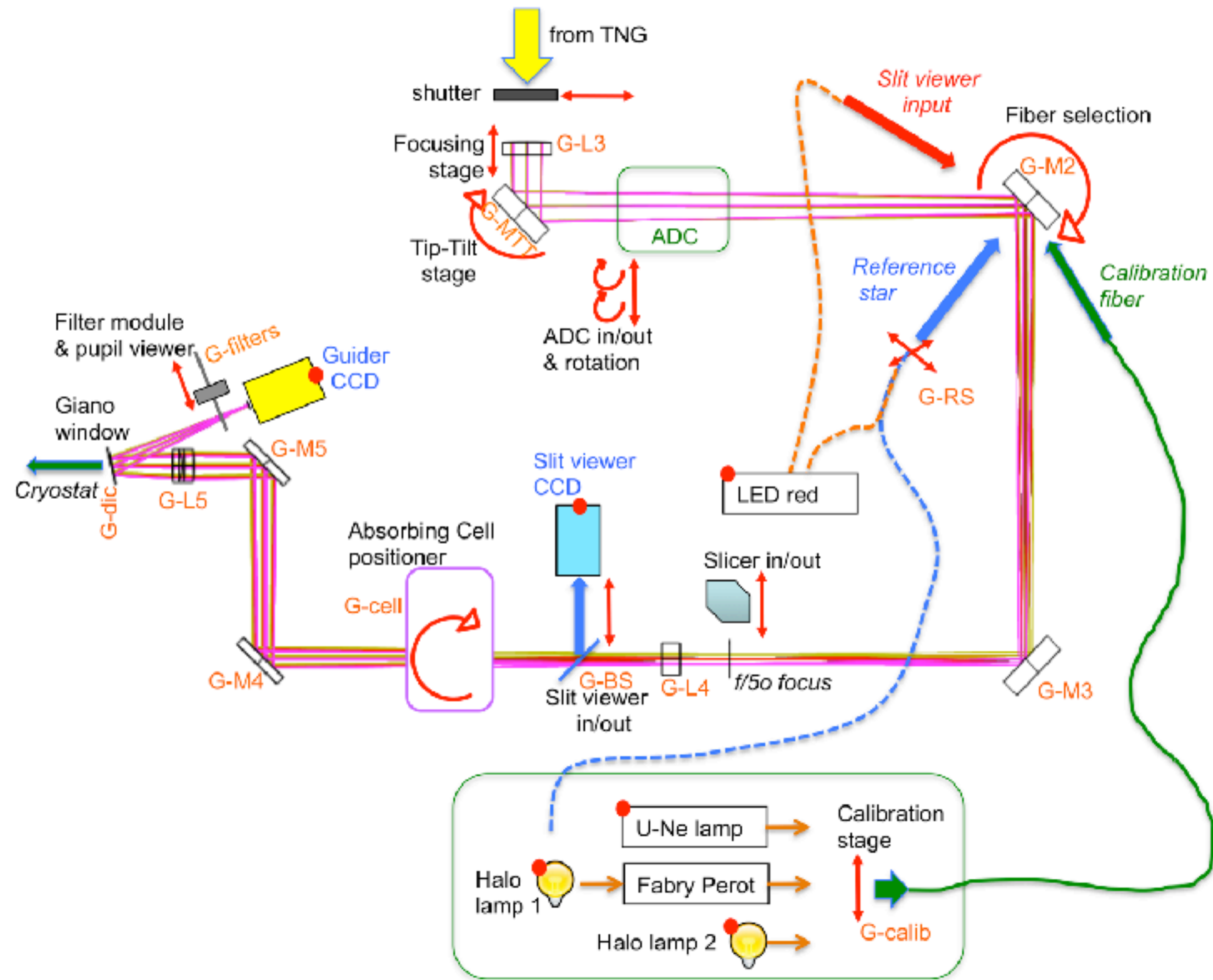
The usual photo...



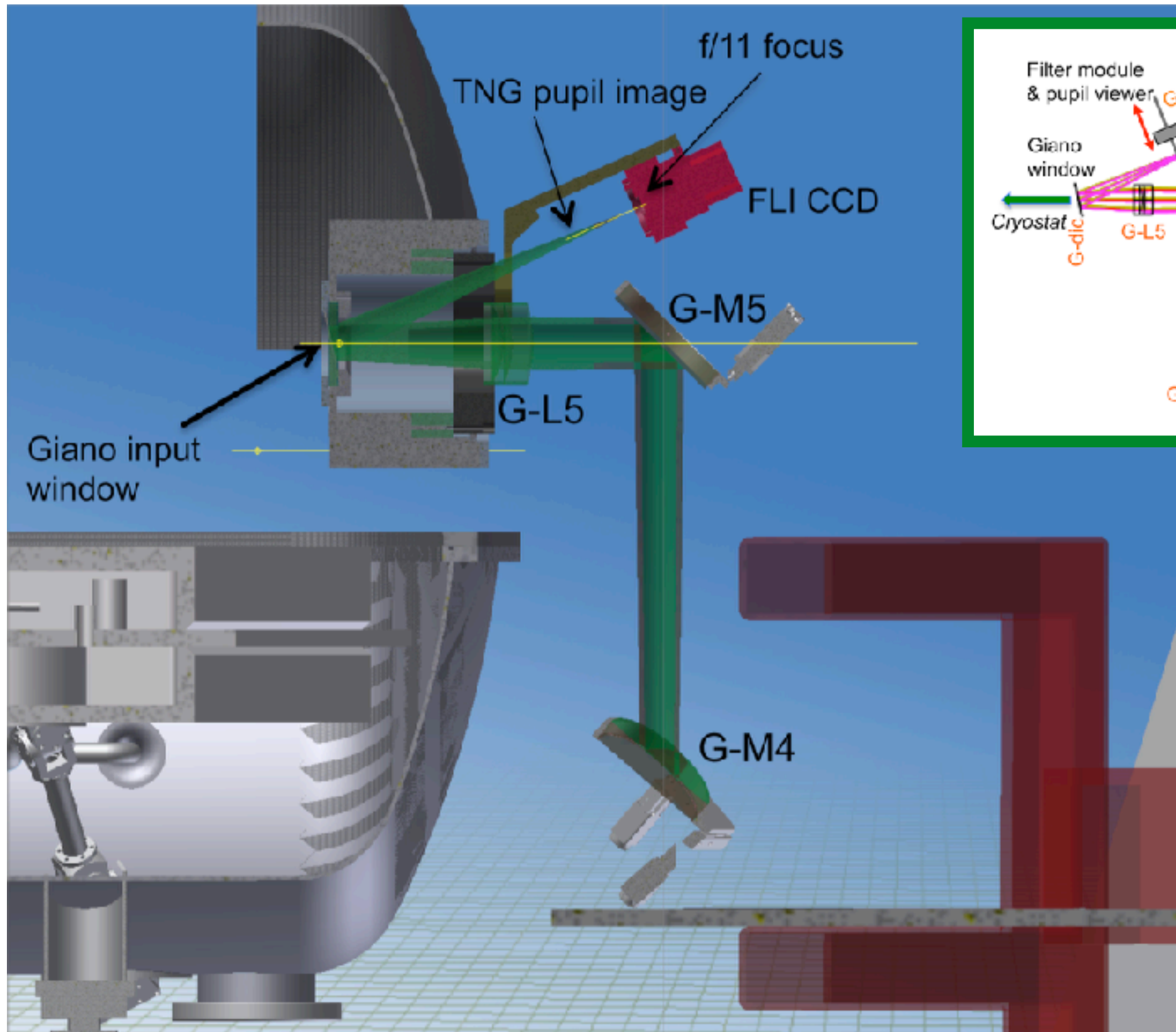
New preslit



New preslit



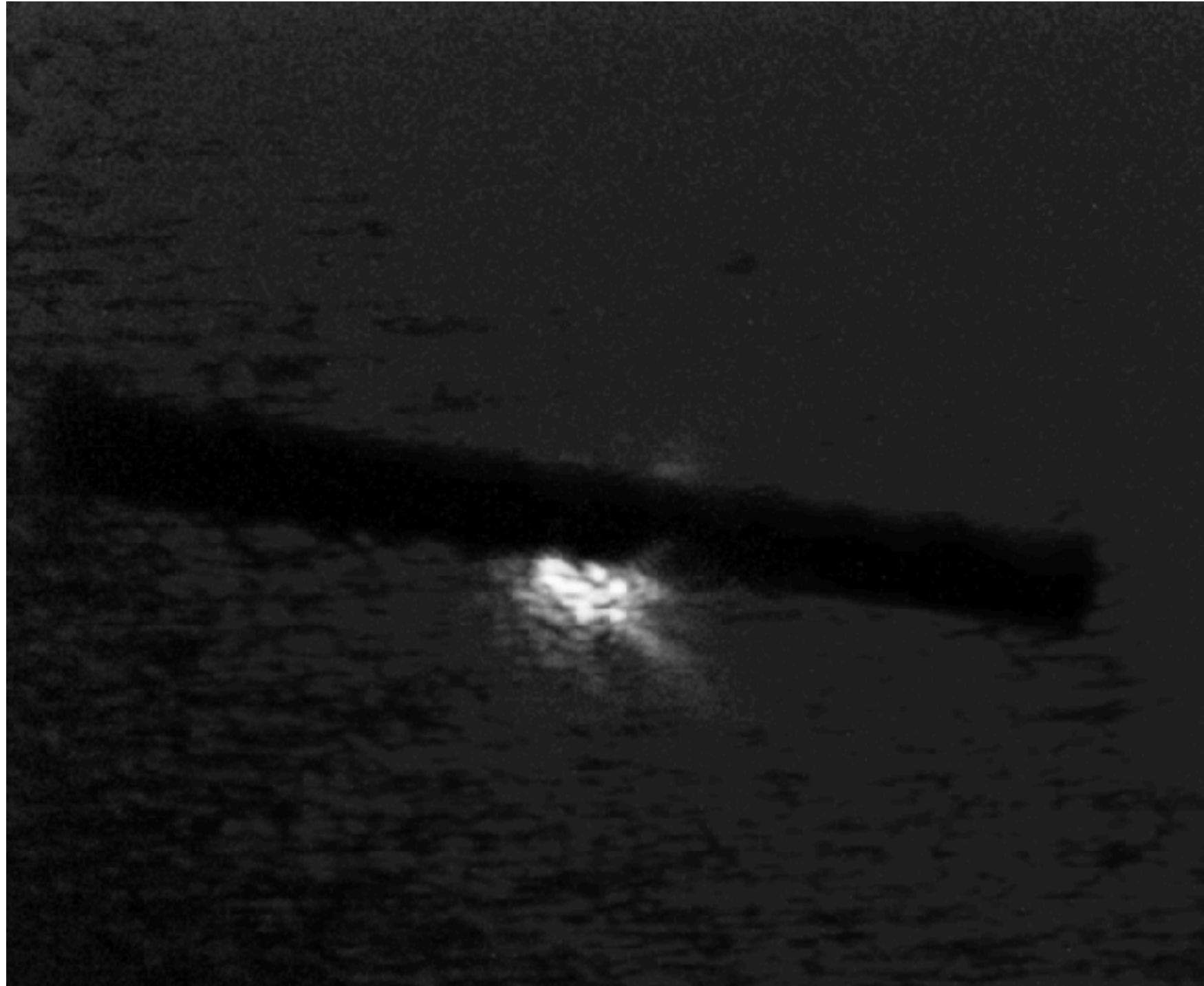
Autoguider



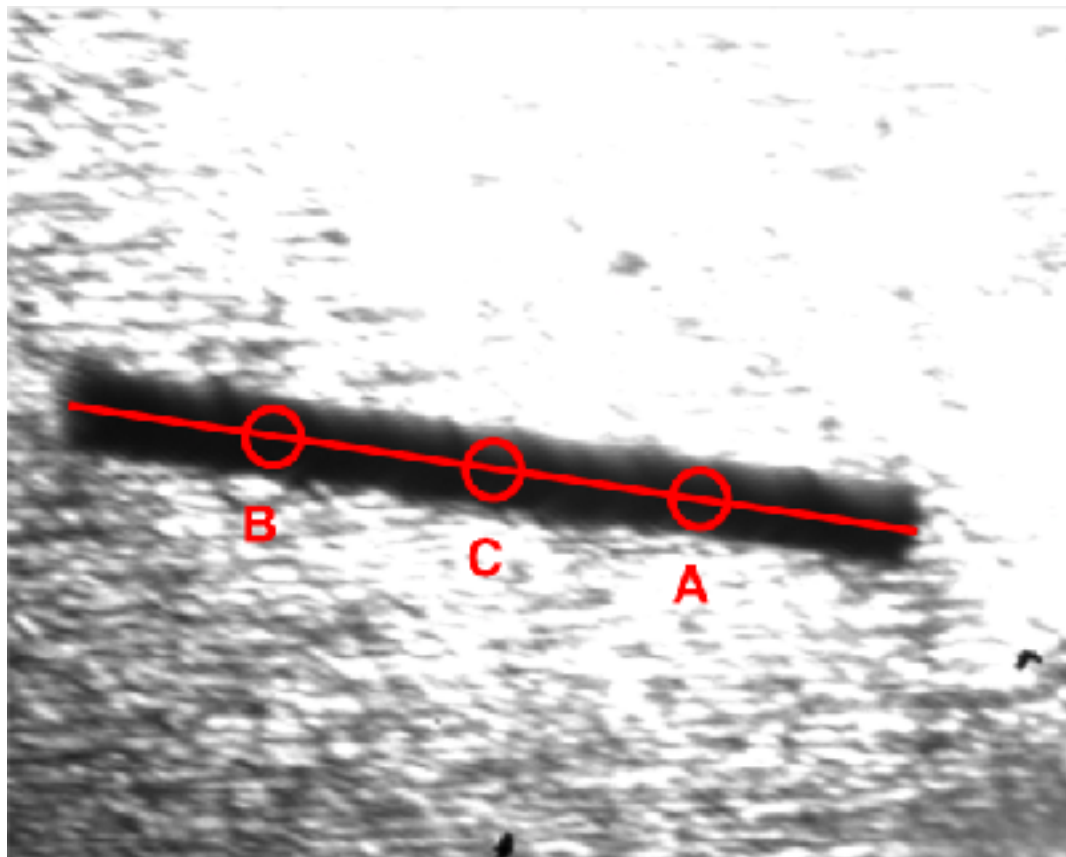
Slit viewer



Slit viewer



Slit-AG calibration



The screenshot shows the GIANO AUTOGUIDER software interface. The main window is titled "GIANO AUTOGUIDER" and contains several panels:

- GIANO GUIDING MODE:** Includes buttons for "GIARPS", "GIARPS", and "GIANO".
- AUTOGUIDE CONTROLS:** Features "ON" and "OFF" buttons, with "OFF" selected. The "Pattern" is set to "C".
- TELESCOPE MOVEMENTS:** Includes a "Move Telescope to Center Star" button and a "Manual Telescope Offset" section with a "Offset (gsec):" input field set to "0.0".
- CCD SETUP:** Includes "SHOT", "CYCLE", and "STCP" buttons. The "Status" is "RUNNING" and "T CCD" is "S C". The "Exposure Time (s)" is set to "1.000".
- FILTER SETUP:** Includes a "Filter" dropdown menu set to "FILTER".
- BOX CONTROLS:** Includes a "Size of the Box (pixels):" input field set to "8x8" and a "Center Box on the Star" button.

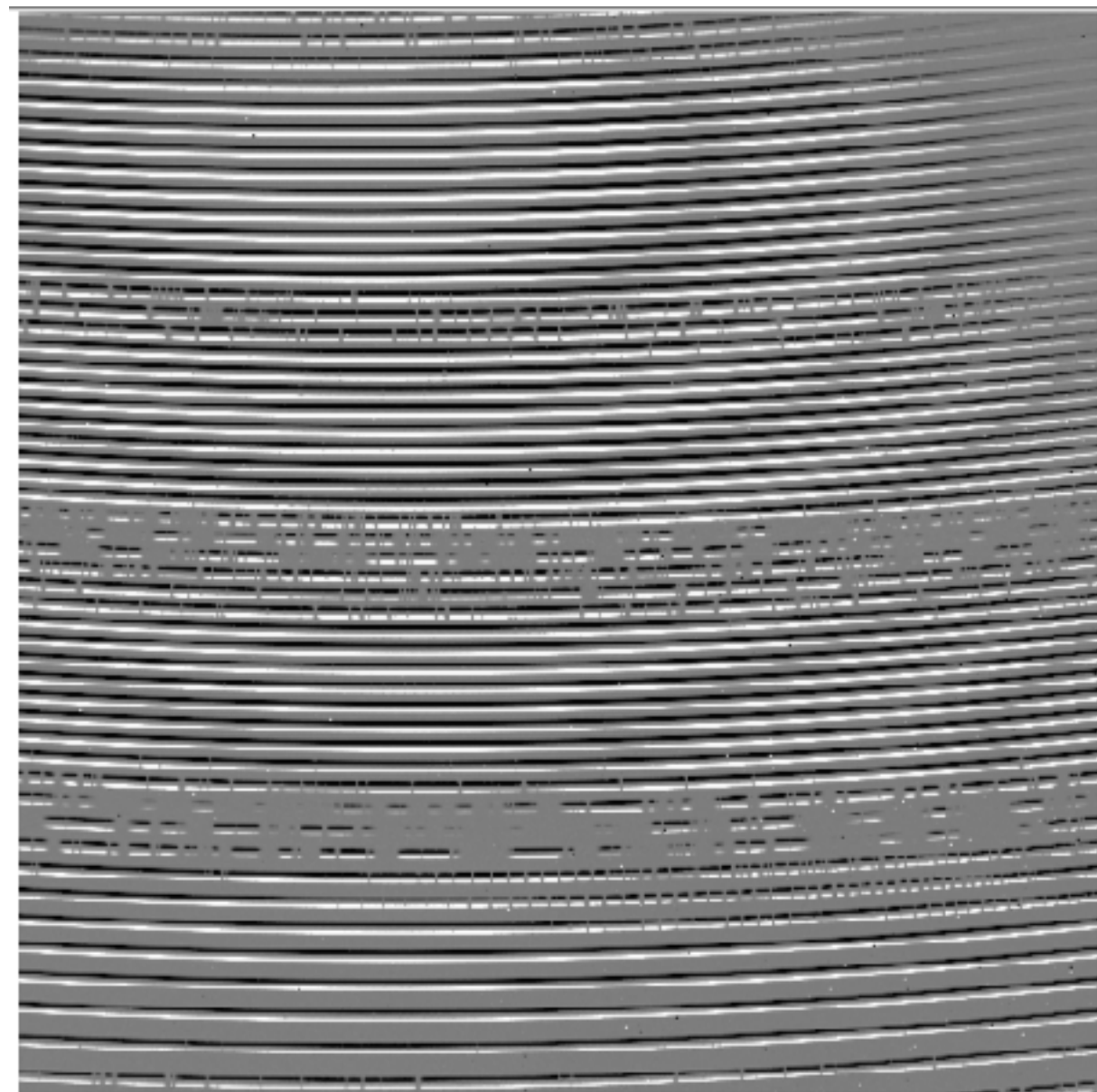
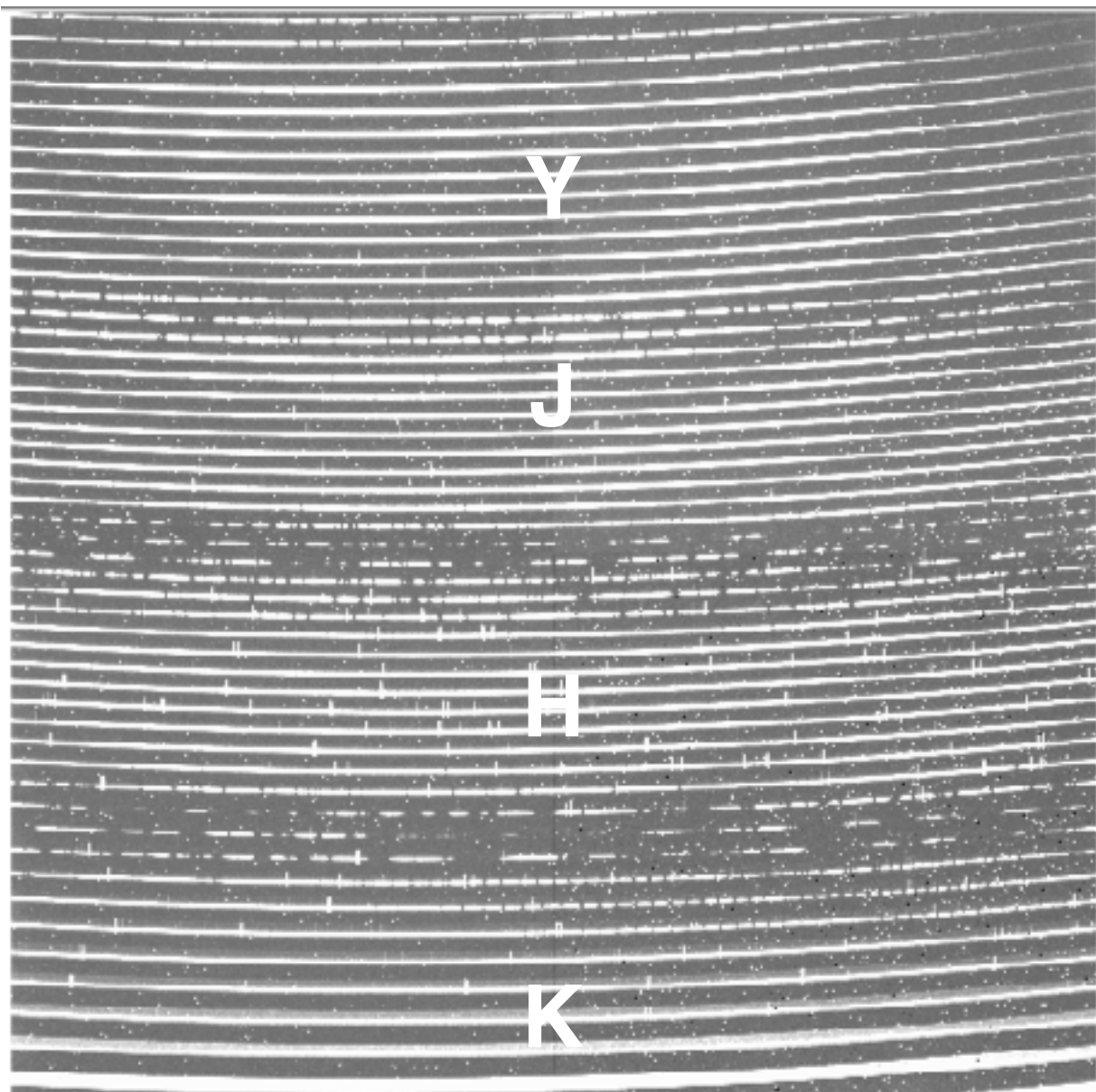
On the right side of the interface, there are four real-time monitoring plots:

- Δx = N/A:** A plot showing the x-axis offset, with values ranging from -0.10 to 0.10.
- Δy = N/A:** A plot showing the y-axis offset, with values ranging from -0.10 to 0.10.
- FWHM =:** A plot showing the Full Width at Half Maximum, with values ranging from 0 to 3.
- U/oom:** A plot showing the U/oom ratio, with values ranging from 0.0 to 2.0.

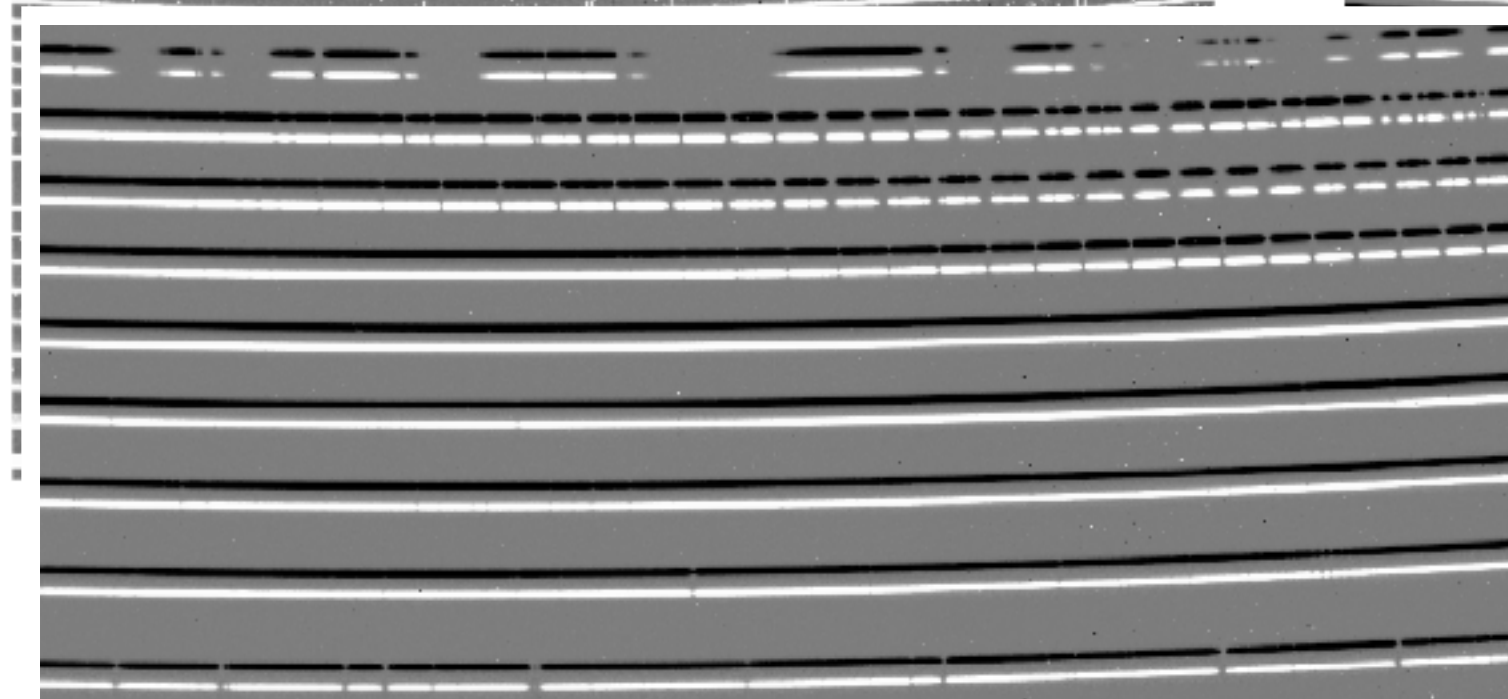
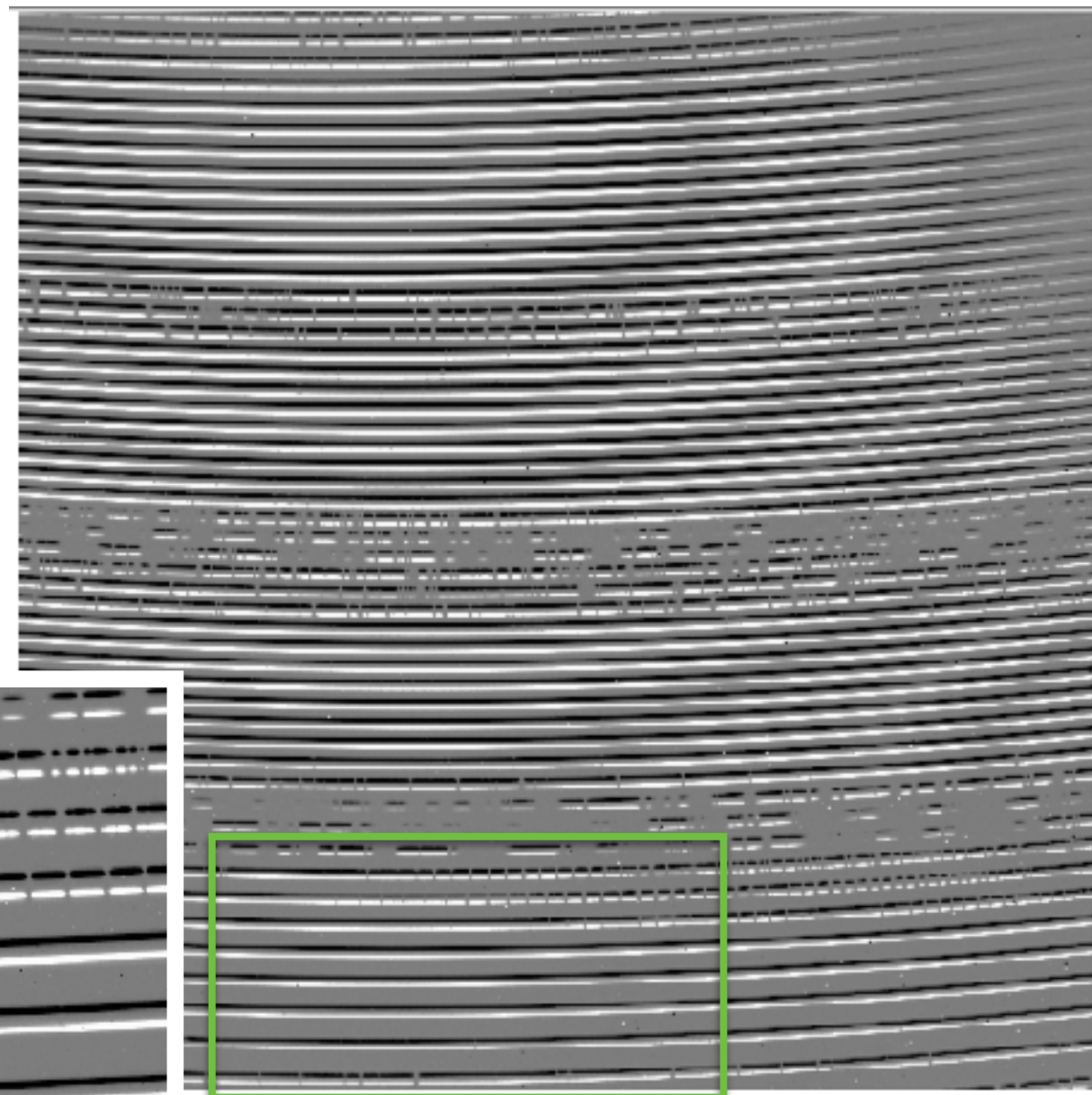
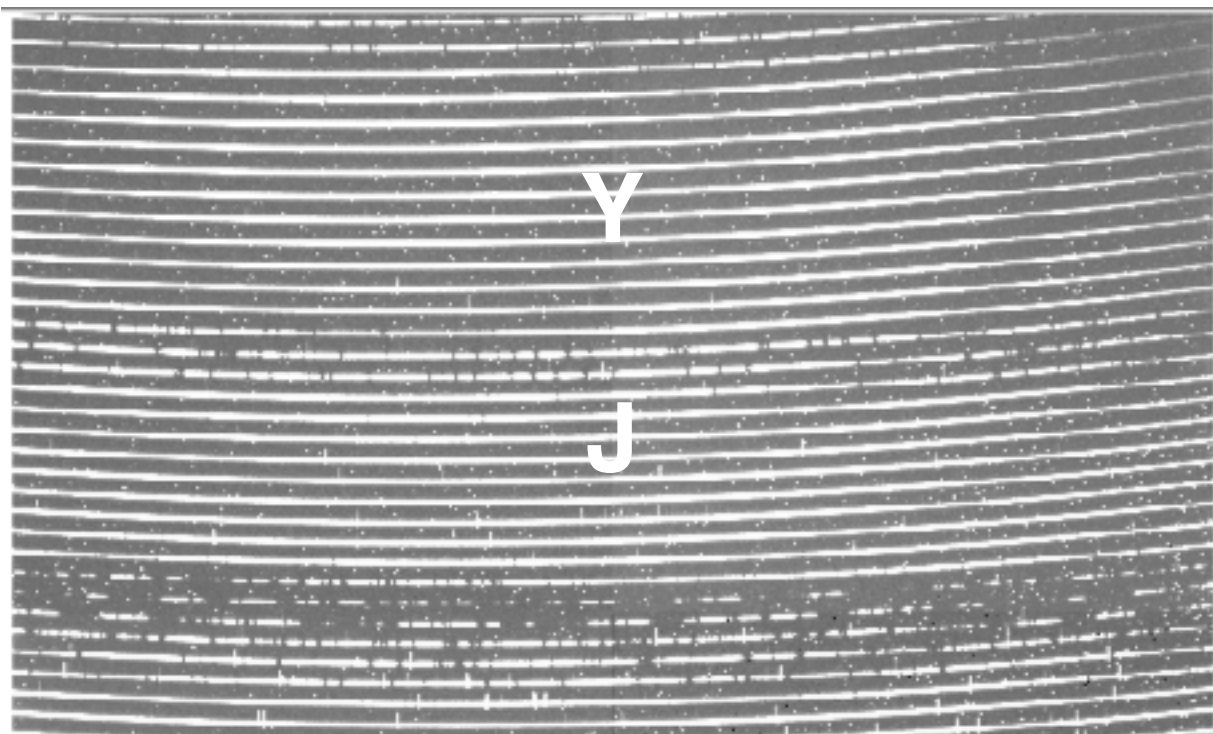
At the bottom left, there is a status log with the following text:

```
Exposure Started at 2017-10-06 14:10:05  
New Image Arrived and Received  
Exposure Started at 2017-10-06 14:10:05  
New Image Arrived and Received
```

2D spectra



2D spectra



Observation control software

The screenshot shows the 'GIANO Sequencer' application window. It features a top navigation bar with 'Sequence Control' and 'Sequence Control'. The main interface is divided into several panels:

- Sequence Control:** Includes buttons for 'Next OB' (green), 'STOP' (yellow), and 'ABORT' (red). Below these are radio buttons for 'Single OB' and 'Queue Mode'.
- Current OB Data:** A table showing fields for 'OB Block ID', 'OB Block Name', 'Template ID', 'Template Name', and 'Sequencer State' (currently 'READY').
- Observer's Calling:** Fields for 'Observer Status', 'Frame Counter', 'Group Counter', 'Filter Wheel', and 'Sit Position'.
- Acquisition Control:** A section for 'Add Magnitude' and 'OBID keys' with input fields for X Coord, Y Coord, FWHM X, FWHM Y, FWHM, and FOC.
- Lighting Control:** Multiple 'Turn ON' and 'Turn OFF' buttons for various lamps (AG, TEL, INS, LAMP).

The screenshot shows the 'GIANO DAMO GUI' application window. It features a top navigation bar with 'GIANO' and 'DAMO GUI'. The main interface is divided into several panels:

- Observation Data:** A table showing fields for 'Type', 'X', 'Y', 'Filter', 'Mag', 'RA Dec', 'Dec Dec', and 'RAJ2000'.
- Observation Image:** A central window showing a bright star with a red bounding box.
- Control Panels:** Multiple sections for 'GIANO GUIDING MODE', 'AUTOGUIDE CONTROLS', 'TELESCOPE MOVEMENTS', 'COOLING', 'FILTER SETUP', and 'BOX CONTROLS'.
- Real-time Plots:** Four vertically stacked plots on the right side showing data over time, with labels like 'X', 'Y', 'FWHM', and 'Etc'.

The screenshot shows the 'Real-time Task Scheduler' application window. It features a top navigation bar with 'File', 'Edit', 'Options', 'Database', and 'Help'. The main interface is divided into several panels:

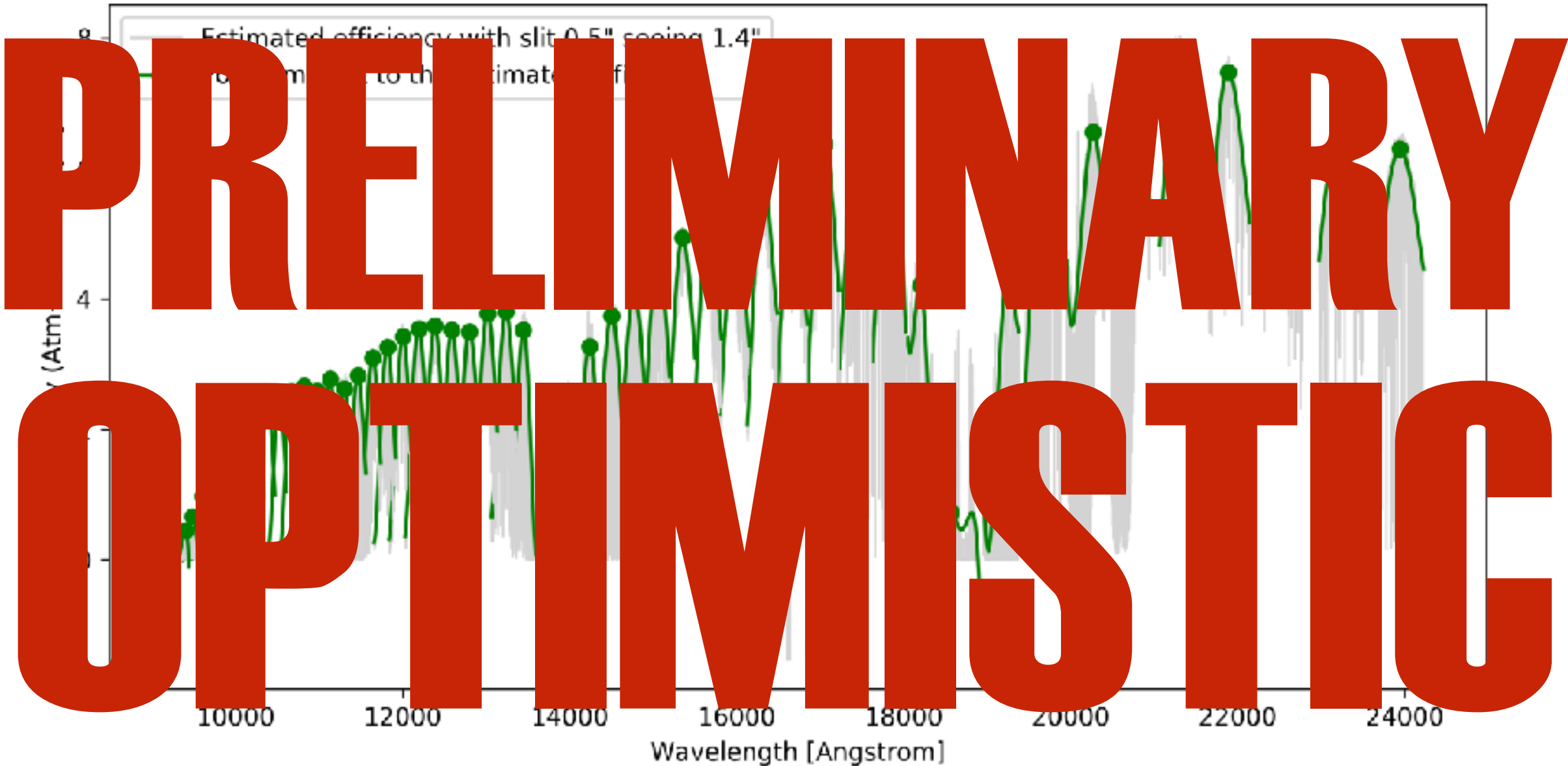
- Task List:** A table showing columns for 'ID', 'Name', 'Target', 'Mags', 'Obs', 'Mag', 'Start (UTC)', 'Stop (UTC)', 'Exposure', 'Temp', 'Altitude', 'SAR', and 'Mag'. The table contains several rows of task data.
- Task Details:** A panel on the right side showing 'Task Parameters', 'Template Parameters', 'Comment', 'Meta-Keywords', and 'Instruments'.
- Task Scheduler:** A bottom panel showing a timeline of tasks with a star icon and a green line indicating the current task.

Calibrations

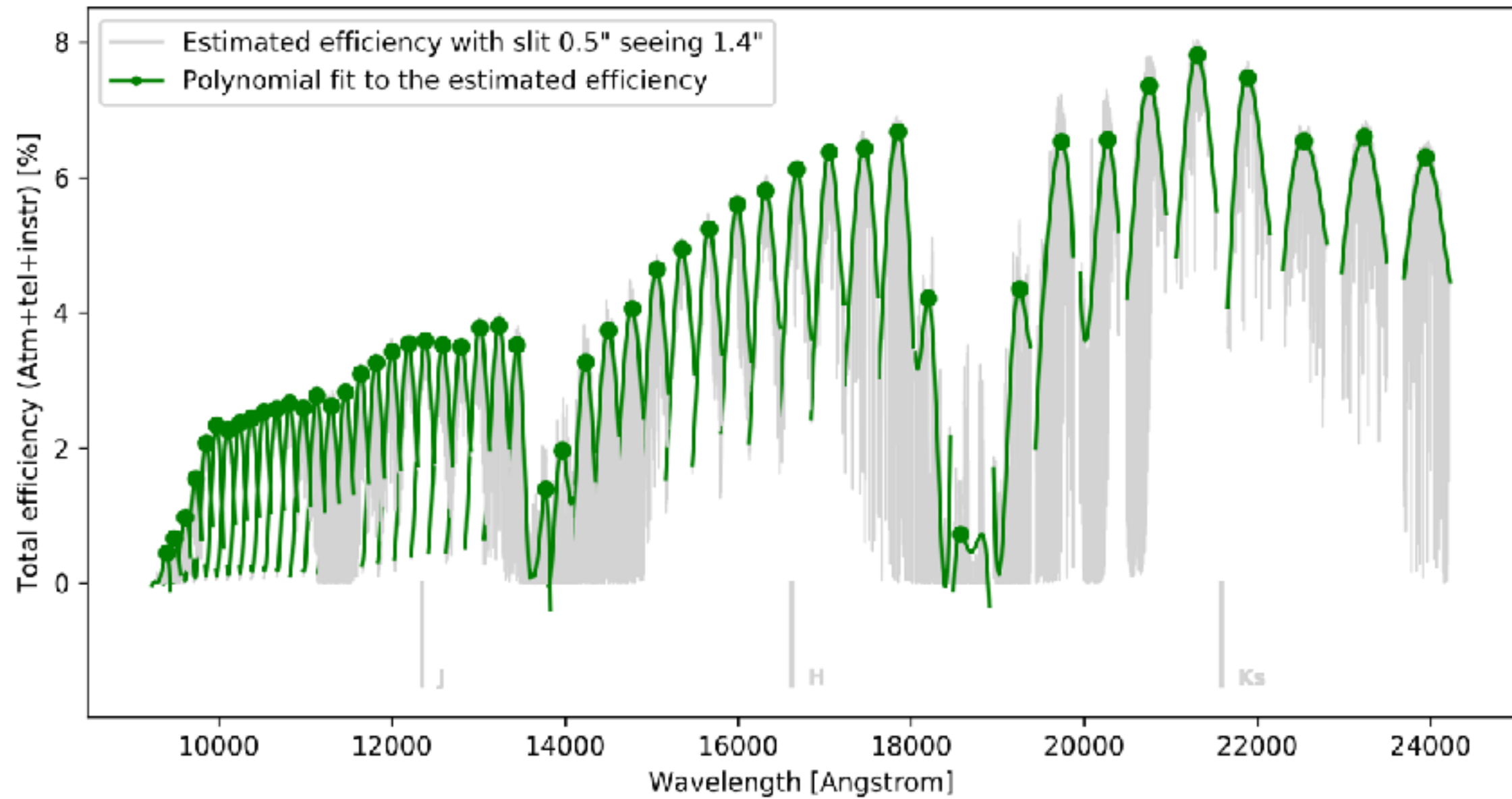
- Darks
- Halogen Flats
- U-Ne wavelength calibrator

- FP wavelength calibrator **planned**
- Absorbing cell **planned**

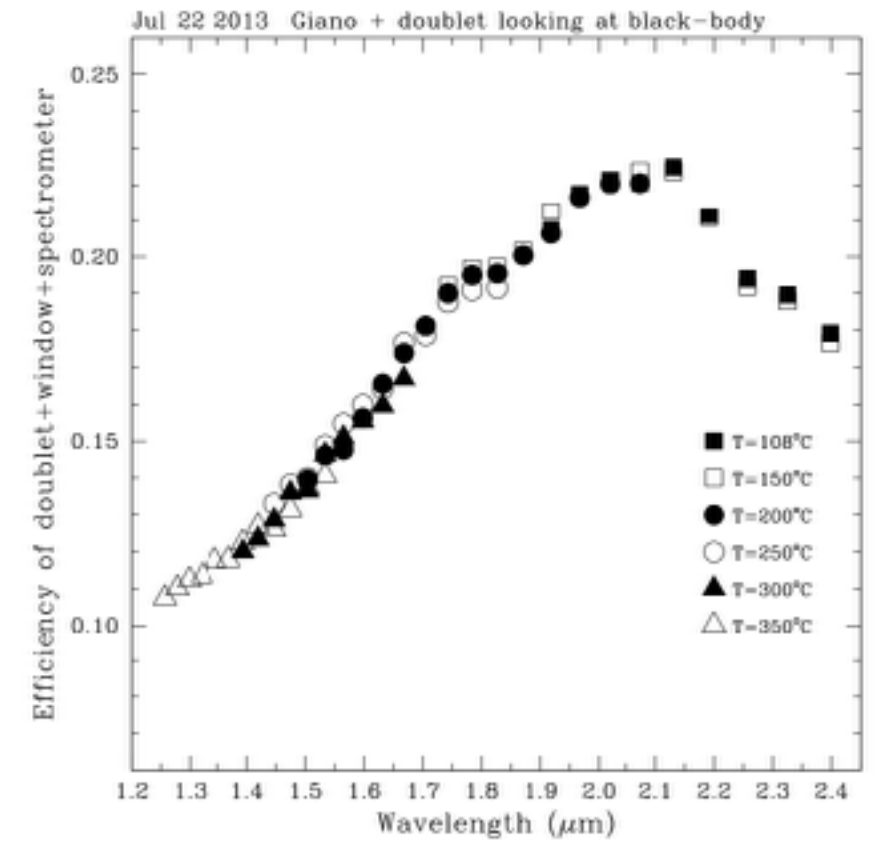
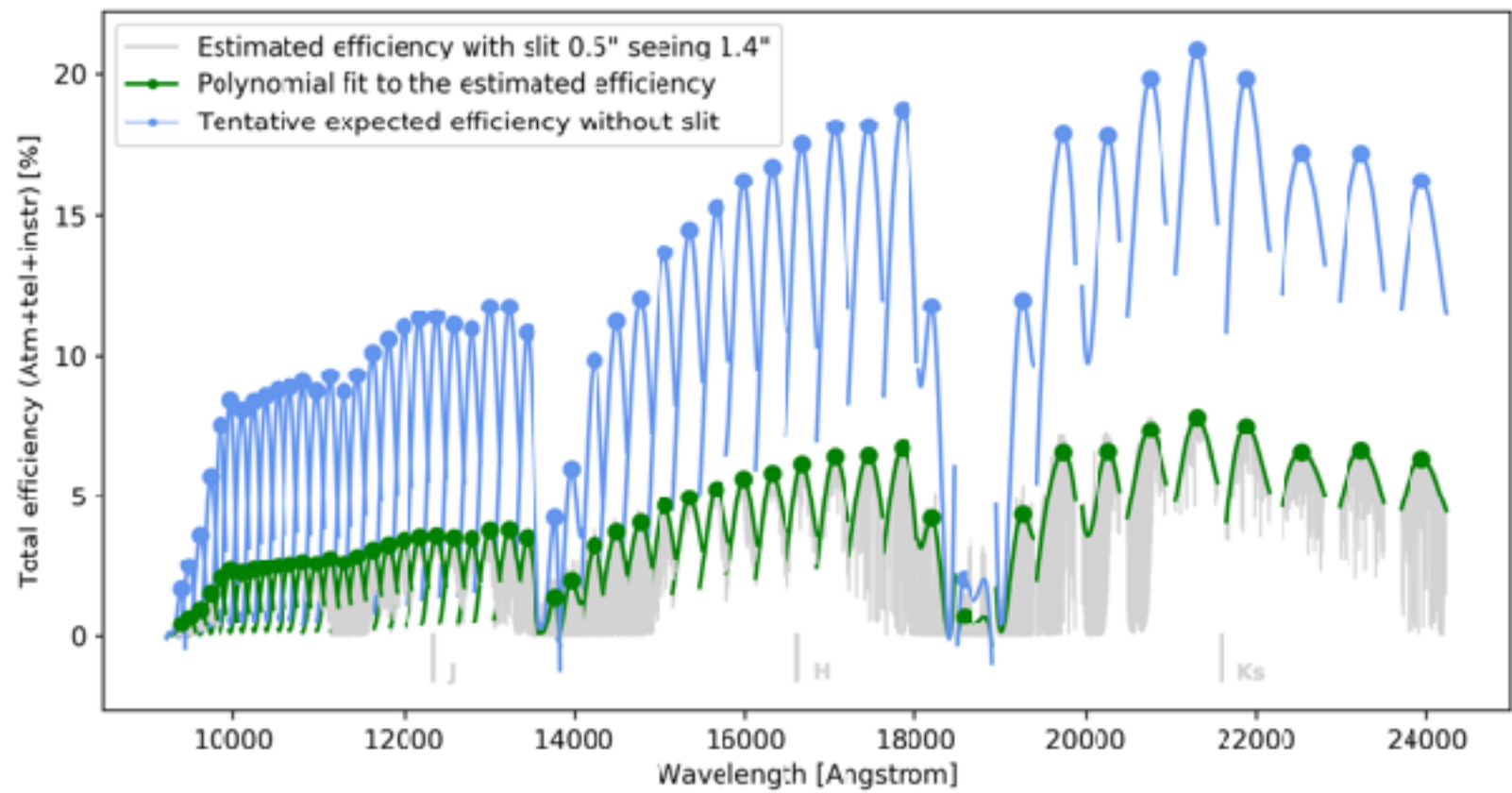
Efficiency



Efficiency

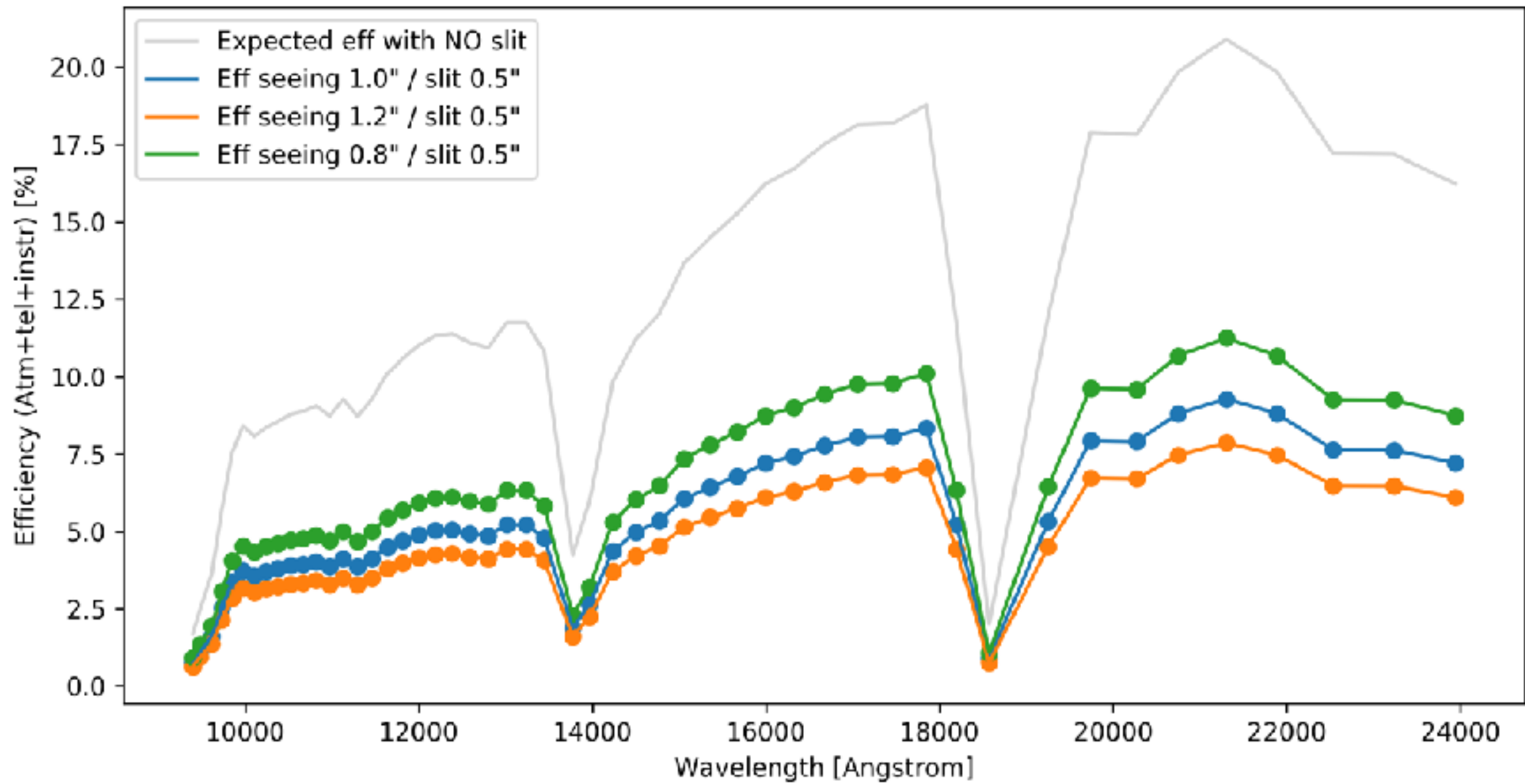


Efficiency

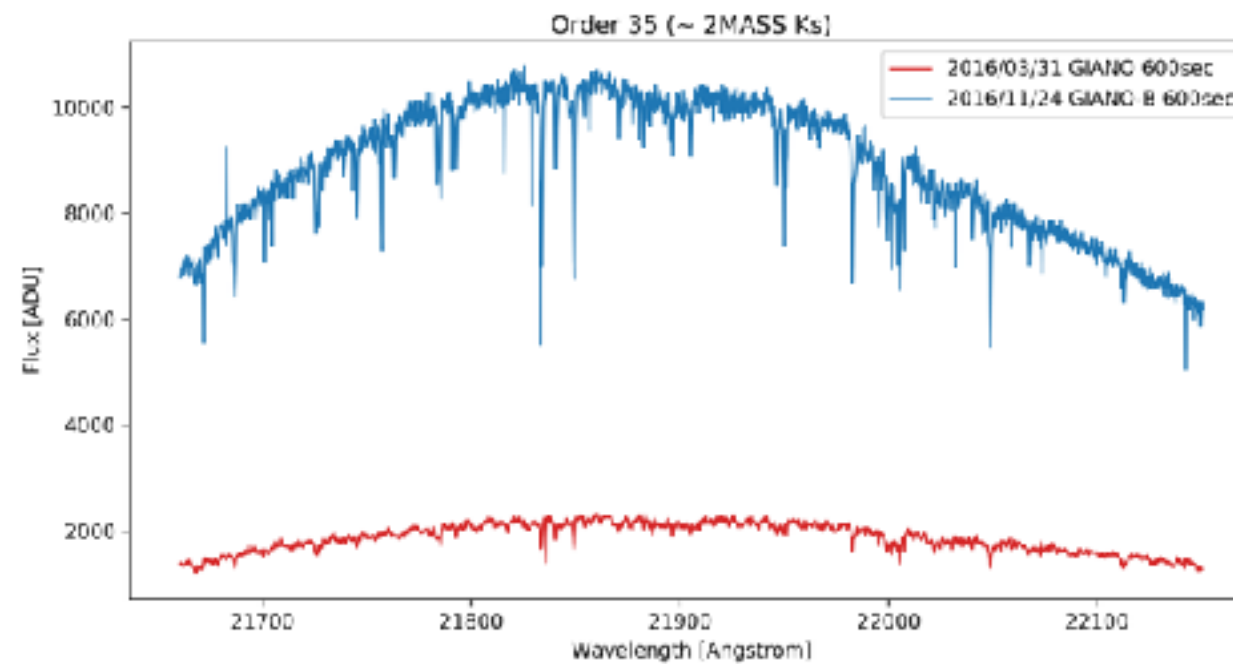
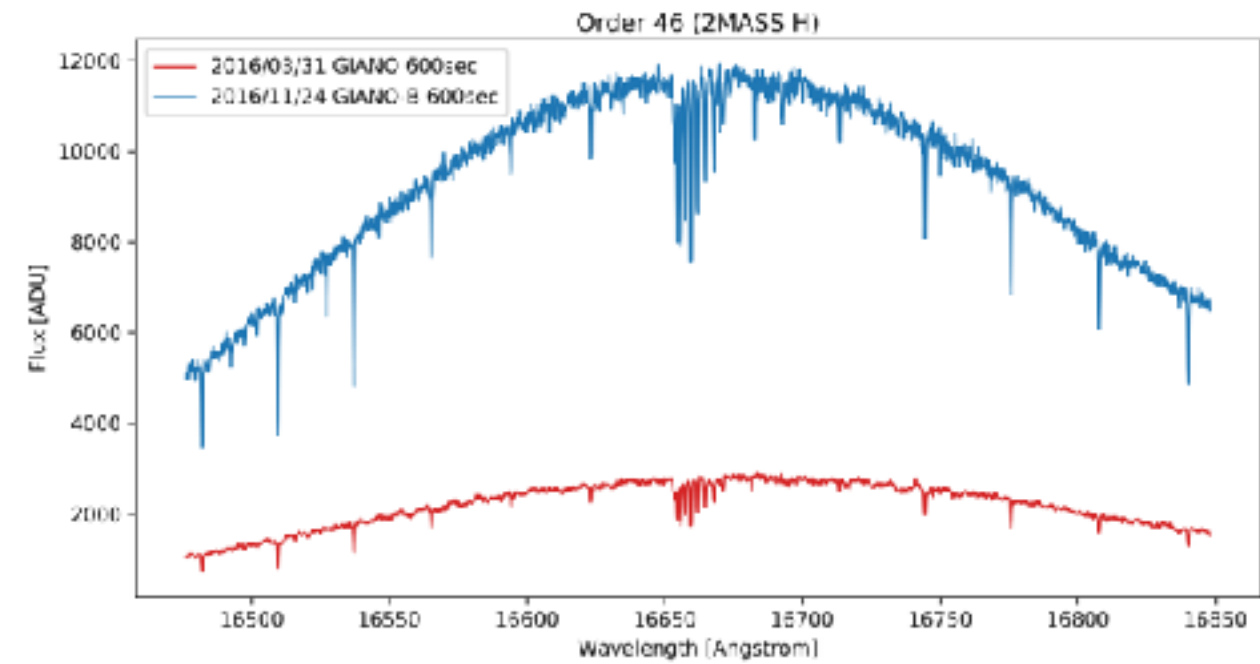
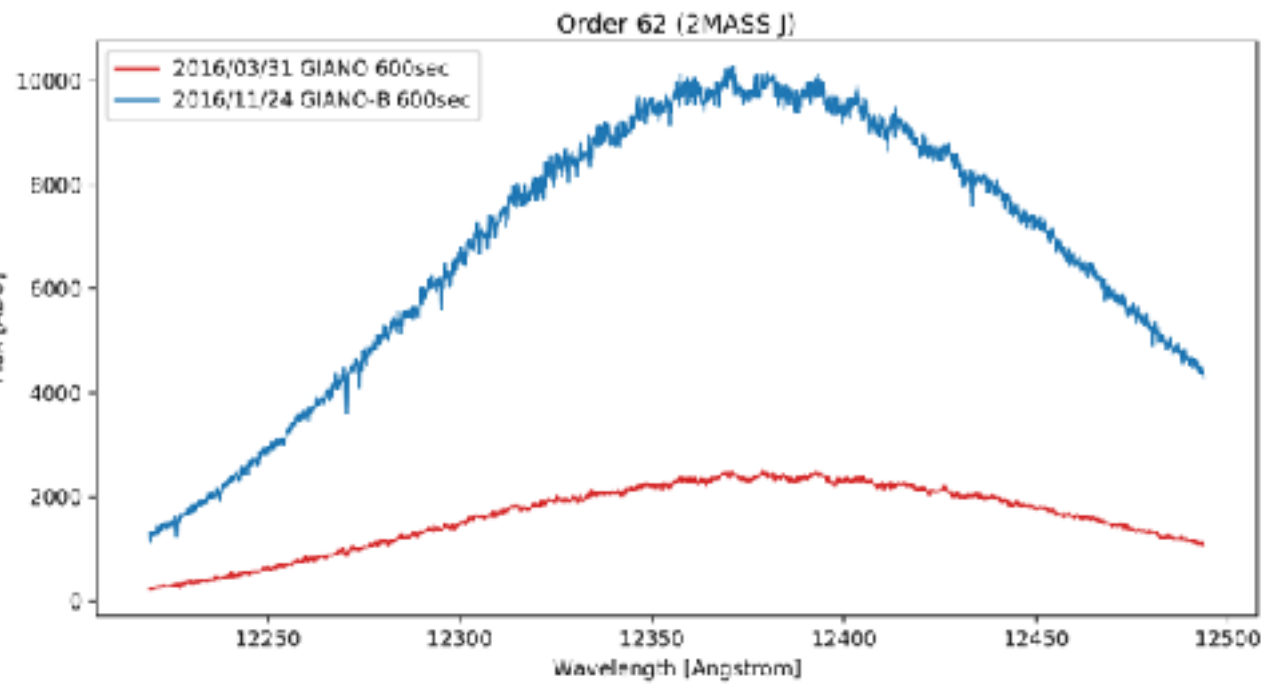


from SPIE 2014, 91479N

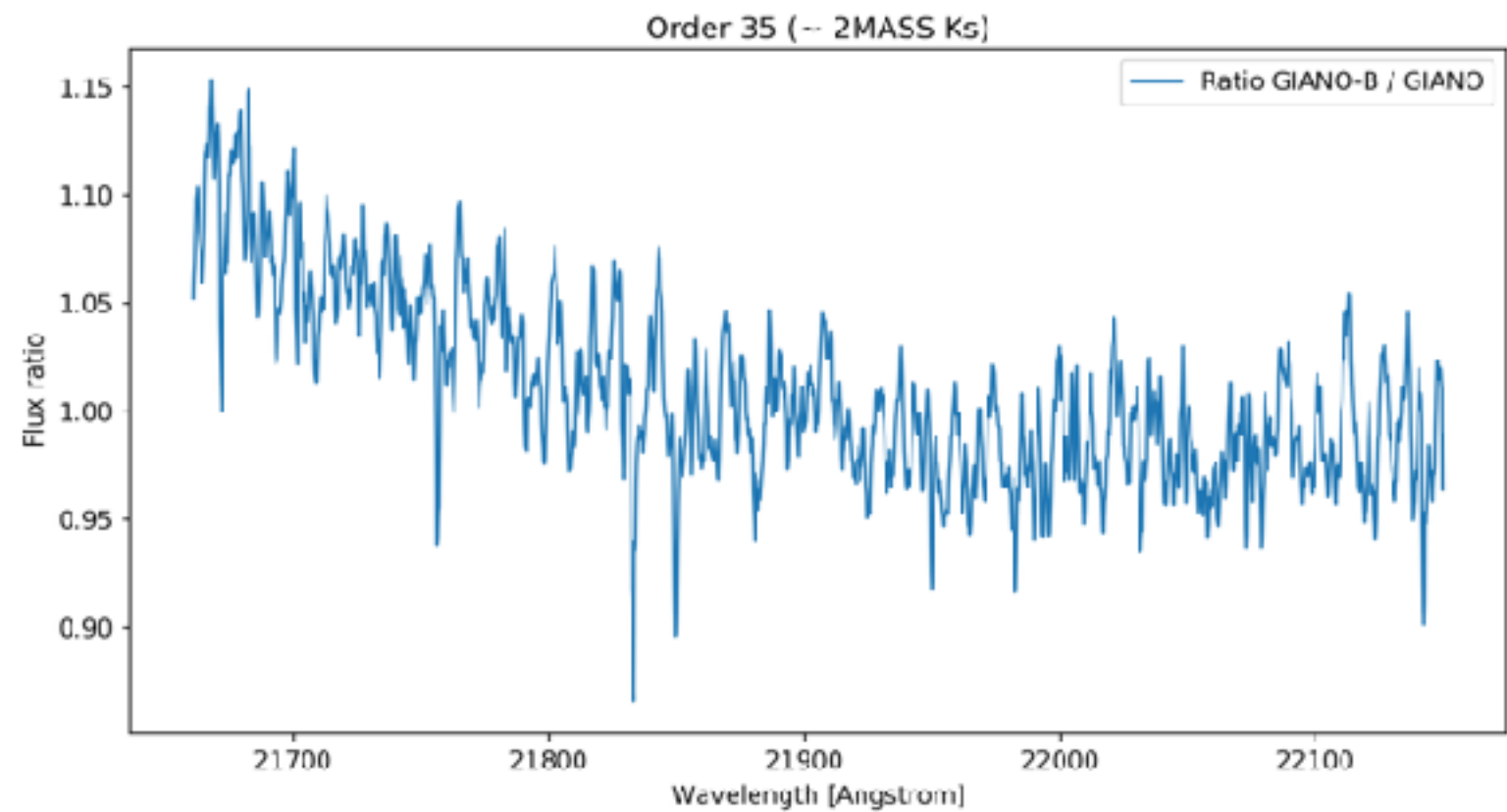
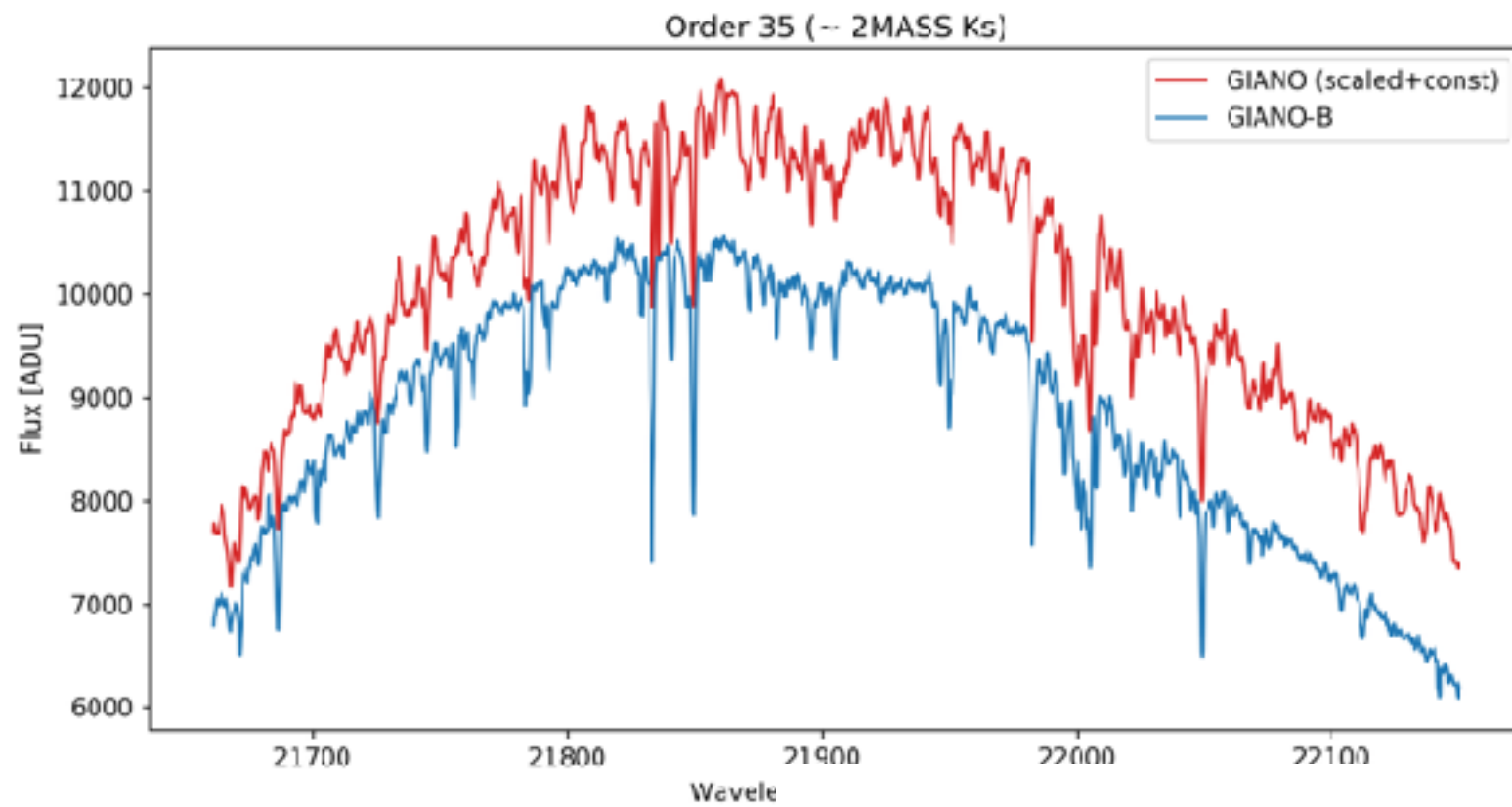
Efficiency



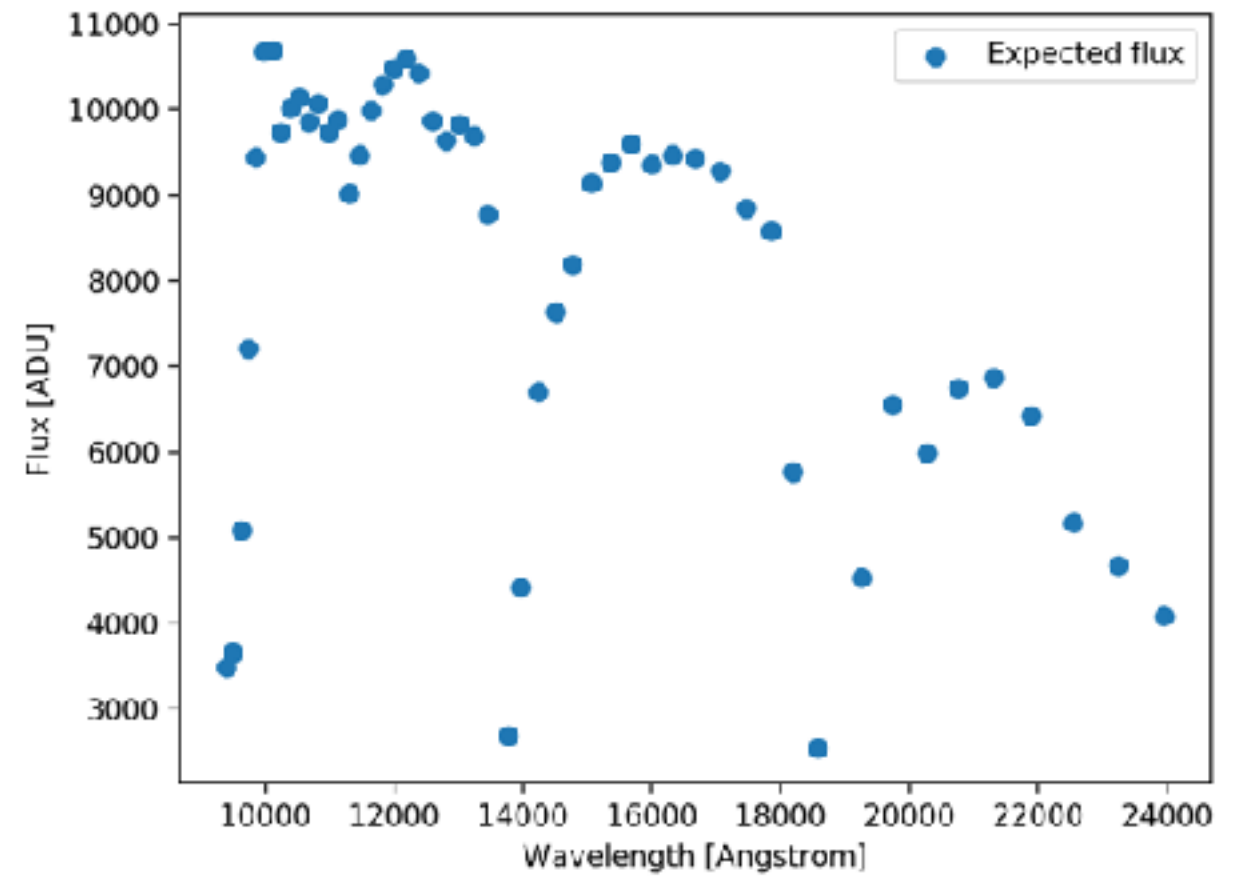
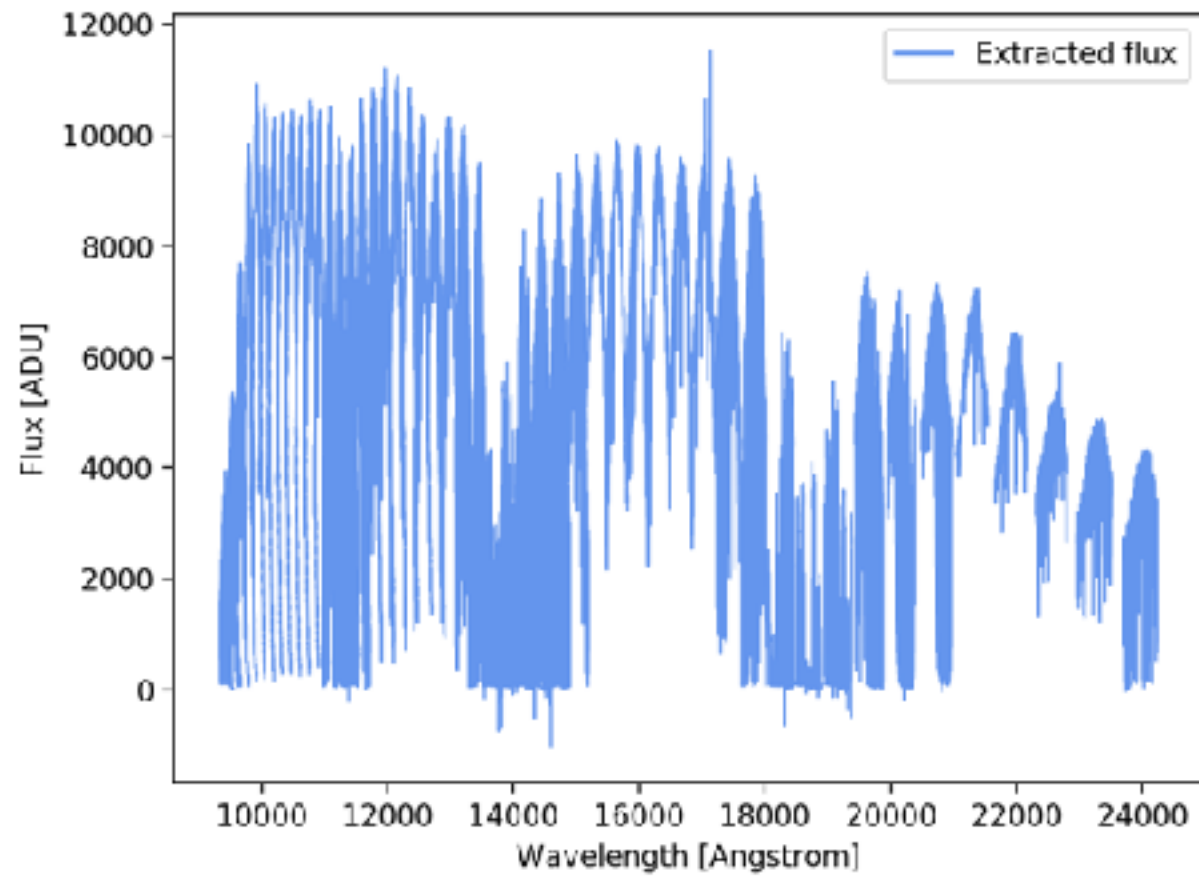
GIANO-B vs GIANO



GIANO-B vs GIANO



ETC



Data processing

GLAO Ramp Processor

Processed images (ramps)

Image name	Image type	Object	SB pos	Exptime	DateTime	Group
GRAND.2017-02-07T13:51-16.000.fits	WCAL_FP	NONE	UNKNOWN	30.0	2017-02-07T13:51:16.000	1/1 ↓
GRAND.2017-02-07T13:52-03.000.fits	WCAL_FP	NONE	UNKNOWN	100.0	2017-02-07T13:52:03.000	1/1 ↓
GRAND.2017-02-07T13:35-43.000.fits	DARK	NONE	UNKNOWN	10.0	2017-02-07T13:35:43.000	1/2 ↓
GRAND.2017-02-07T13:34-07.000.fits	DARK	NONE	UNKNOWN	10.0	2017-02-07T13:34:07.000	1/1 ↓

Ramp segments

Name (GRANDFAN...)	Type	FN	Status
2017-02-07T13-51-16.000	WCAL_FP	6/6	Processed
2017-02-07T13-51-43.000	WCAL_FP	3/6	Processed
2017-02-07T13-51-26.000	WCAL_FP	4/6	Processed
2017-02-07T13-51-26.000	WCAL_FP	3/6	Processed
2017-02-07T13-51-16.000	WCAL_FP	2/6	Processed
2017-02-07T13-51-06.000	WCAL_FP	13/13	Processed
2017-02-07T13-54-28.000	WCAL_FP	12/13	Processed
2017-02-07T13-54-28.000	WCAL_FP	13/13	Processed
2017-02-07T13-54-11.000	WCAL_FP	19/13	Processed
2017-02-07T13-54-01.000	WCAL_FP	10/13	Processed
2017-02-07T13-54-01.000	WCAL_FP	8/13	Processed

Online
DRS