

2022-09-21 TSO WG Meeting notes

Date

21 Sept 2022

Attendees

- Sarah Kendrew
- Brian Brooks
- Leonardo Ubeda
- Nikolay Nikolov
- Nestor Espinoza
- Unknown User (birkmann)
- Knicole Colon
- Jeroen Bouwman
- Loic Albert
- Elena Manjavacas
- Everett Schlawin

Meeting agenda:

1. News & Announcements.
2. Publication status of commissioning papers.
3. FY2023 task allocation
4. Instrument roundtable check-in

Discussion items

Time	Item	Who	Notes
5 mins	1. News & announcements	Everyone	<ul style="list-style-type: none">▪ Unknown User (birkmann) shares that there was a new OSS software patch last week. No longer 7.5 mins to change detectors within NIRSpec, now only a couple of seconds. Also some better thermal behavior.▪ Sarah Kendrew reminds TSOs are not only exoplanets!▪ Nestor Espinoza shares of a JWST Latin-American workshop being done in Chile in December: https://sites.google.com/view/exolatam/. Please share widely if you can amongst people in Latin American institutions!
10min	2. Status on TSO commissioning papers		
	NIRCam	Nikolay Nikolov	<ul style="list-style-type: none">▪ Heard from Everett Schlawin he is implementing final tweaks and submitting soon. That's for SW paper (submission happening today); no updates yet on the LW paper.
	NIRISS	Loic Albert	<ul style="list-style-type: none">▪ Progressing on the paper — two sections that still need to be written. One is on the A0 stability, and do the same on HAT-P-14b. Nestor Espinoza will help out with these analyses. Idea is to have this ready for next few weeks. Nestor Espinoza will send the NIRISS slides to Loic Albert.
	NIRSpec	Nestor Espinoza	<ul style="list-style-type: none">▪ We already submitted to PASP.
	MIRI	Sarah Kendrew / Jeroen Bouwman	<ul style="list-style-type: none">▪ Putting in the final comments; round of comments already finished. Should be finished today, so all together for one final read this week — and then submitting.▪ MIRI team will let everyone know once they submit, so they can put up in the arXiv the NIRSpec, MIRI and NIRCam submitted papers.
			Consensus is we'll probably submit the NIRCam, MIRI and NIRSpec papers next week; all dependent on when MIRI submits.
5min	3. FY 2023 work task allocation		

	General updates	Nestor Espinoza	<ul style="list-style-type: none"> ▪ Nestor Espinoza shares FY2023 final task list and assignments. ▪ Loic Albert says he's implemented on Python Nikolay Nikolov's cosmic-ray rejection algorithm, which would be a very good comparison against the proposed work of Nikolay Nikolov. Nikolay Nikolov asks if he does it on the groups or the integrations. Loic Albert says they work on the integration level. ▪ Nestor Espinoza thinks this is excellent because Loic Albert's work can be used to have an independent check to Nikolay Nikolov's efforts on NIRISS.
10min	3. Instrument roundtable check-in		
	NIRCam	Nikolay Nikolov , Everett Schlawin , Brian Brooks	<ul style="list-style-type: none"> ▪ Brian Brooks right now going through JDox updates/reviews. Everett Schlawin mentions they are putting some lessons learned on settling times on the paper to JDox.
	NIRISS	Nestor Espinoza , Loic Albert	<ul style="list-style-type: none"> ▪ Loic Albert mentions that there is a dataset that shows strong oscillations in the flux, which might be related to WF movements. Nestor Espinoza notes this is the WASP-18b (ERS) dataset, on which the flux variations correlate very nicely with the FWHM. Need to reach out to the WF team to see if they have any measurements on this. Loic Albert mentions this once again highlights how good SOSS is for tracking WF changes. ▪ Nikolay Nikolov is happy to see how the FWHM is a good predictor of WF variations!
	NIRSpec	Unknown User (birkmann) , Nestor Espinoza	<ul style="list-style-type: none"> ▪ Nothing to update. Couple of WATA failures in last couple of days, but all related to high proper motion targets/wrong ephemerides.
	MIRI	Sarah Kendrew , Jeroen Bouwman	<ul style="list-style-type: none"> ▪ MIRI TSOs performing really well! Right now having some issues with the FS mode for LRS (doesn't impact slitless operations i.e., TSOs). 390 Hz noise is a thing — this was seen on the MIRI commissioning paper. One solution is to move the subarray off the edge of the detector, although unclear if this will solve or partially eliminate the problem; all this is under investigation. ▪ One thing suggested by the European MIRI team: considering doing TSOs with the FS mode. It's an order of magnitude better sensitivity (because less background). Pointing is no longer an issue, to this can be a thing. Slit is a bit small though about 0.5 x 4 arcsecs. Nikolay Nikolov asks if whether any FWHM variations might impact the FS observations. Sarah Kendrew notes that there is already a ~40 hr. phase-curve for GJ1214b which, albeit not public now, when it is it could be a very good performance indicator to test all these questions.
2 mins	4. Closing Remarks		See you on the next FY!