2017-02-23 Meeting notes

Date

23 Feb 2017

Attendees

- Kevin Stevenson
- Jonathan Fraine
- Joseph Filippazzo
- Sarah <u>Kendrew</u>
- Unknown User (ggiardino@rssd.esa.int)
 Unknown User (sbirkman@rssd.esa.int)
 Unknown User (tom.greene@nasa.gov)
- Loic Albert
- Pierre-Olivier Lagage
 Unknown User (jason@astro.umontreal.ca)
 Unknown User (jml2u@virginia.edu)
 Unknown User (eas342@email.arizona.edu)

- David Lafreniere
- John Stansberry
- Unknown User (f.lahuis@sron.nl)

Goals

• Discuss simulated TSO data, file sizes, BG subtraction

Discussion items

Time	ltem	Who	Notes
15 min	NIRSpec TSO CV3 Presentation	Giovanna Stephan	 Had to divide by white light curve to remove brightness variations Two main sources of systematic noise 1/f noise from detector electronics Flux variations from drift/jitter NIRSpec should reach 200 ppm noise floor in <5 min of integration
5 min	NIRSpec	Stephan	 Real CV3 data available (see presentation) Typical file size ~ 4 GB Max file size ~ 20 GB Median of "out-of-trace" pixels per column removes detector 1/f noise
5 min	NIRCam	Tom	 Jarron is simulating TSO data Spectral BG subtraction should be "column-by-column" (cross-dispersion direction), but cannot cross strip boundaries Image BG subtraction likely an annulus Typical file size ~ 13 GB Max file size ~ 173 GB Jonathan Fraine will be PoC
10 min	NIRISS	Jason	 Have simulations for 6 different exoplanet systems Source code working on documentation, adding 1/f noise, etc Typical file size ~ 2 GB Max file size ~ 24 GB Recommend "column-by-column" (in the cross-dispersion direction) See slide below for 1/f subtraction
5 min	MIRI	Sarah	 Slitless LRS integrated into MIRI Simulator, currently testing Typical file size ~ 10.4 GB Max file size ~ 45 GB Ongoing discussion about BG subtraction on subtraction may work off-source BG exposure seems prudent Not sure if "column-by-column" (in the cross-dispersion direction) will work

Additional discussion	All	 What data products would be needed for simulated data? What level? What's the schedule for providing simulated data? Does the simulated data need to have proper headers? If so, what are the constraints? Suggested that 1/f noise subtraction should be separate from the BG subtraction Integrating BG subtraction into 1D spectral extraction should be fine
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Slides



Action items