

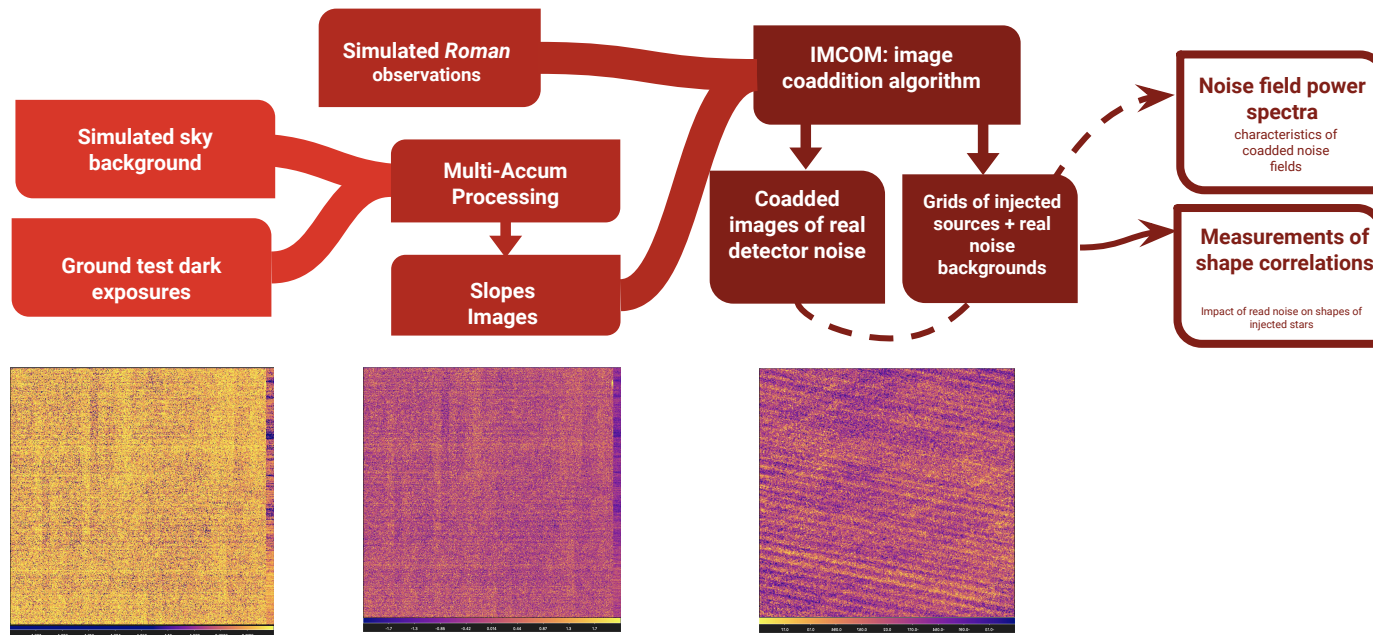
# Read Noise Biasing on the Nancy Grace Roman Space Telescope

Katherine Laliotis  
12 March, 2024



## Goals:

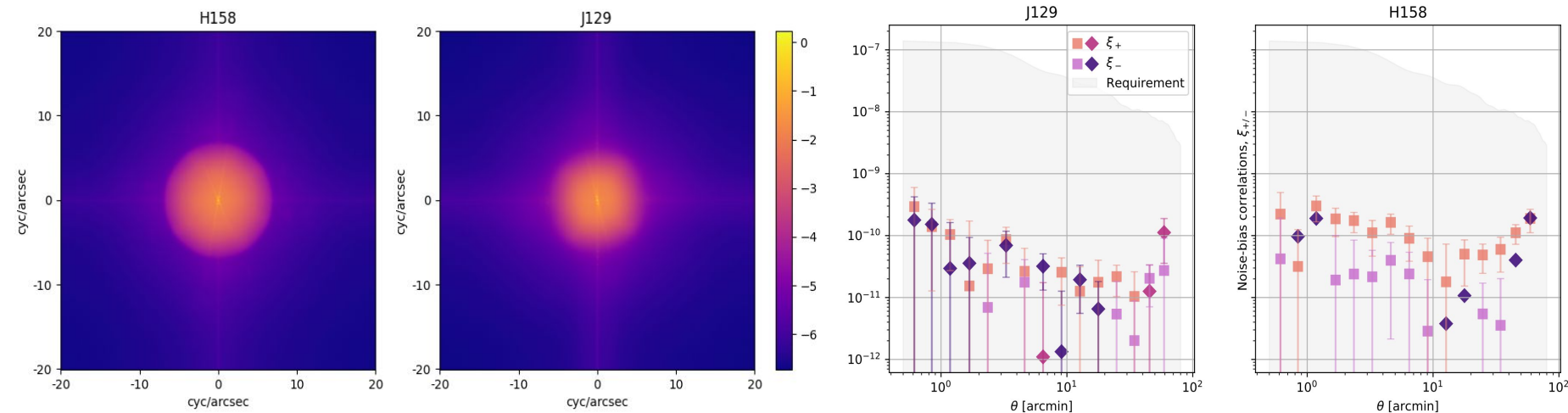
- 1) Understand how correlated detector noise propagates through proposed Roman image combination pipeline
- 2) Estimate the magnitude of shear biases we can expect read noise to induce on weak lensing measurements.



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## Results:

- 1) We observe features in the noise power spectra from: PSF shape, postage stamp boundaries, roll angles
- 2) the biasing on shape measurements from read noise is below the mission requirements as defined in the SRD