



Contribution ID: 36

Type: **Oral presentation (20 minute)**

## **H4RG detector analyses for the Roman Space Telescope and Prime Focus Spectrograph**

*Thursday, 14 March 2024 09:20 (25 minutes)*

HAWAII-4RG (H4RG) detectors will provide a substantial portion of the scientific output for both the Nancy Grace Roman Space Telescope (Roman) and the Prime Focus Spectrograph (PFS) on the Subaru Telescope. In the first half of this talk, I will present my work from the last few years on modeling detector-level effects present in Roman's flight candidates. Specifically, I focus on how these effects are expected to impact Roman's cosmic shear analyses. In the second half of this talk, I will present ongoing work to measure and characterize the noise properties of PFS H4RG-15s.

### **contribution subject matter**

noise characteristics

### **Keywords for your contribution subject matter (this will assist SOC in accurately characterizing your contribution)**

weak lensing systematics

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**Session Classification:** Sensors for Nancy Grace Roman

**Track Classification:** Major ISPA Workshop Tracks: Detector Modeling