

## Rogue Worlds Strike Back, Episode 2



Contribution ID: 24

Type: **Contributed talk**

### Rogue worlds in the era of Roman

*Tuesday, December 16, 2025 5:00 PM (20 minutes)*

Launching in less than a year, the Nancy Grace Roman Space Telescope is poised to detect hundreds to thousands of free-floating planets at masses ranging from that of Mars to beyond Jupiter. Reconstructing the mass distribution of these worlds would provide key insight into their origins and dynamical history, and as such, is a prime target for the Roman mission. However, due to the inherent degeneracies of microlensing observables, reconstructing the mass of individual FFPs is challenging. In this talk, I will outline the prospects for an alternative scheme to reconstruct this mass function and provide updates on Roman's plan for a near-live-time FFP alert pipeline.

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**Session Classification:** Microlensing

**Track Classification:** In-person