

Inferno Worlds

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Propositions accompanying the thesis Inferno Worlds

1. The exoplanet 55 Cancri e (Janssen) potentially has a variable exosphere.

(Chapter 2)

2. The dust tails of disintegrating rocky exoplanets likely have temporally variable optical depths.

(Chapter 3)

3. The mass-loss rates of disintegrating rocky exoplanets may be underestimated in most of the literature.

(Chapter 3)

4. Self-shielding within the dust tails of disintegrating rocky exoplanets can have a significant effect on their morphologies.

(Chapter 4)

5. Gas tails from disintegrating rocky exoplanets may be more difficult to observe than exoplanet atmospheres.

(Chapter 5)

- 6. Intrinsic variability of astrophysical objects introduces additional complexity.
- 7. When running several hundred simulations with variable input parameters, good notes help to keep track of which run is which.
- 8. Living in a foreign country broadens your perspectives on both the wider world and your home country.
- 9. A significant benefit of scientific research is that it fosters strong interpersonal relationships across international borders.
- 10. Astronomers should resist the temptation to attribute unexplained phenomena to extraterrestrials.

Andrew Ridden-Harper Leiden, November 2018