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## The chemistry of planet-forming disks: a story from inner to outer disk

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Propositions  
accompanying the thesis

The chemistry of planet-forming disks  
A story from inner to outer disk

1. MIRI observations of CO cannot be used to derive the excitation conditions.  
*(Chapter 2)*
2. The cold water reservoirs of disks that are compact in millimeter continuum are not always enhanced.  
*(Chapters 3, 4)*
3. Substructures at scales smaller than 15 au are a common occurrence, even in compact dust disks.  
*(Chapter 5)*
4. The role of low-density, late-infalling material cannot be ignored in setting the chemical composition and structure of the outer disk.  
*(Chapter 7)*
5. Visual inspection of data is a valuable tool in the assessment of whether a feature is real or not.
6. Planet-forming disks and exoplanets are two different astronomical subfields and should not be grouped in a single proposal category.
7. Planets in disks are like the knees of penguins.
8. All scientists should participate in a form of science communication intended for the general public.
9. Distributed peer-review turns the acceptance of proposals into a lottery, so it teaches one to write detailed, but accessible science justifications.
10. Walks are not only beneficial for one's physical and mental health, but also for solving scientific problems and triggering new ideas.
11. The ability to say 'No' is a powerful skill to have, but it has a steep learning curve.
12. It is best to do what feels right for you, even if that means working during the weekend.

Milou Temmink  
Leiden, 5 June 2026