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Universiteit Leiden



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Title: Unveiling protostellar disk formation around low-mass stars

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Propositions

accompanying the thesis

Unveiling protostellar disk formation around low-mass stars

1. Rotationally supported disks are present around the majority of embedded protostars by the end of the collapse phase.
(Chapters 2, 4, 5)
2. Spatially and spectrally resolved molecular lines can differentiate a rotationally supported disk from a pseudodisk.
(Chapter 2)
3. Accretion through the embedded disk onto the star can be a chaotic process that affects the physical and chemical evolution during its formation.
(Chapters 2, 3, 6)
4. The chemical composition of comets and icy bodies formed within 30 AU has been significantly reset during the early solar system formation.
(Chapter 6)
5. Simulations including all physical processes will not provide the answer.
6. 'Bugs' are your friends, 'features' are fiends.
7. Theoretical ideas have to be tested from time to time even if they are more than 30 years old.
8. It is easier to understand cosmology than solar system science.
9. A cooperative board game does not always improve a research group's dynamic.
10. Understanding this thesis and obtaining high marks in 'standardized' language exams are mutually exclusive.
11. Humanity is similar to a thorn bird.
12. The production of this thesis accumulated 250 tons of CO₂.

Daniel Harsono
Leiden, September 2014