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The demographics of protoplanetary disks: from Lupus to Orion

Terwisga, S.E. van

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Author: Terwisga, S.E. van

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Stellingen behorende bij het proefschrift

The Demographics of Protoplanetary Disks: from Lupus to Orion

1. Observations of protoplanetary disks that sample objects from the same region at uniform resolution and sensitivity are an essential tool for constraining the occurrence of features in protoplanetary disks. *(Chapters 2 & 3)*
2. By including molecules like CN in protoplanetary disk surveys, it is possible to obtain new information on the structure and chemistry of disks at little to no extra cost in terms of observing time. *(Chapter 3)*
3. The similarity in the continuum flux distributions of protoplanetary disks in OMC-2, Lupus, and Taurus indicates that the initial conditions that set the populations of disks can be identical even if the large-scale environment is very different. *(Chapter 4)*
4. When studying massive star-forming regions, the presence of multiple populations with distinct ages can have a significant confounding effect on the interpretation of disk luminosities. *(Chapter 5)*
5. The small number of different star-forming regions targeted by flux-limited unbiased disk surveys is a major limitation to our understanding of disk evolution.
6. The value of observational data in multiple wavelength regimes is multiplicative, not additive.
7. Placing observations in an easily accessible public archive after a certain proprietary period is an important driver for science and for equality in science, and should be a priority for all telescopes.
8. Writing well deserves much more explicit attention in astronomical education.
9. It is not selfish for astronomers to defend dark skies against commercial interests.
10. Nondetections are an essential observable.
11. The lack of planning on timescales of at least a hundred years is the greatest challenge of our times, for science and for society in general.
12. Music and astronomy are sister sciences, and each reinforces the enjoyment of the other.

Sierk van Terwisga
Leiden, 11 December 2019