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High angular resolution studies of protoplanetary discs

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Citation

Panic, O. (2009, October 27). *High angular resolution studies of protoplanetary discs*. Retrieved from <https://hdl.handle.net/1887/14267>

Version: Corrected Publisher's Version

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Propositions

accompanying the thesis

High angular resolution studies of protoplanetary discs

1. Observations of optically thin low-J CO lines can constrain the gas mass of discs around young stars with spectral type A.

This thesis, Chapter 2

2. Molecular gas observations must accompany dust measurements to derive the radial density distribution and extent of protoplanetary discs.

This thesis, Chapters 3 and 5

3. Near-infrared H₂ lines, like the 1-0 S(1) line at 2.12 μm , can probe molecular gas over the full extent of protoplanetary discs.

This thesis, Chapter 4

4. Most gas-rich discs around Herbig Ae star are smaller than 200 AU.

This thesis, Chapter 5

5. Simultaneous modeling of multi-wavelength observations, including imaging at millimeter wavelengths, is essential to further our understanding of the structure of protoplanetary discs.

This thesis, Chapters 2 and 3

6. Introduction of scientific writing into the undergraduate curriculum increases the efficiency of young researchers' work during their doctoral studies.

7. In the next 20 years, quantum physics will be tested beyond terrestrial accelerator energies.

Bauleo & Rodríguez Martino, 2009, Nature, 458

8. For women to be 'more like men' does not foster gender equality.

9. Science cannot prove or disprove the existence of God.

10. There is no such thing as a nation prone to war or a nation immune to it.

Leiden, 27 October 2009

Olja Panić