The handle http://hdl.handle.net/1887/33224 holds various files of this Leiden University dissertation

**Author:** San José García, Irene  
**Title:** Paving the path between low- and high-mass star formation : dynamics probed by *Herschel* far-infrared spectroscopy  
**Issue Date:** 2015-06-18
Propositions
accompanying the thesis

Paving the path between
low- and high-mass star formation
Dynamics probed by Herschel far-infrared spectroscopy

1. The physical structure of shocks along the outflow cavity wall probed by water is similar among low-, intermediate-, and high-mass young stellar objects (YSOs). (Chapters 4 & 5)

2. The kinematic differences found in low-mass YSOs between outflowing gas probed by water and mid-$J$ CO are mitigated in high-mass YSOs. (Chapter 2 & 4)

3. Turbulent motions in the inner regions of protostellar envelopes increase with the luminosity of the source. (Chapter 3)

4. The trends and properties obtained from water and mid-$J$ CO observations from low- to high-mass are robust against sample bias. (Chapter 5)

5. Simple models should be used to constrain the plausible parameter space before implementing more complex and detailed models.

6. The definition of a “large and statistically significant sample” varies notably between different fields in Astronomy.

7. Even Astronomy is affected by fashion.

8. Quality should be prioritised over quantity in academia.

9. Finding a healthy work-life-family balance during a Ph.D. is harder than finishing your thesis.

10. Living abroad and travelling help to make you aware of your own unconscious biases.

11. Dutch culture encourages you to learn to ride a bicycle regardless of the weather conditions.

12. “Star Wars” is a soap opera set in space.

Irene San José García
Leiden, 18 June 2015