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Warm and cold gas in low-mass protostars : Herschel Space Observatory and ground-based surveys

Yildiz, U

Citation

Yildiz, U. (2013, May 1). *Warm and cold gas in low-mass protostars : Herschel Space Observatory and ground-based surveys*. Retrieved from <https://hdl.handle.net/1887/20855>

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Author: Yildiz, Umut

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Issue Date: 2013-05-01

Propositions

accompanying the thesis

*W*arm and Cold Gas in Low-Mass Protostars *Herschel* Space Observatory and Ground-Based Surveys

1. A significant amount of CO must be transformed to other species in the ice in the protostellar envelope. (*Chapters 2, 3, 4*)
2. The mass of UV-heated gas in the protostellar envelope is comparable to that in the outflow. (*Chapter 4*)
3. The CO excitation temperature is not an evolutionary tracer in Class 0 and Class I sources, however the outflow force is. (*Chapters 3 and 5*)
4. The gas and ice that enter protoplanetary disks have a low O₂ abundance. (*Chapter 6*)
5. Aether exists.
6. The constituents of dark matter have to be known to understand galaxy formation.
7. Simple exoplanetary atmosphere models should be used to compare with current data.
8. Incorrect data sometimes lead to a new field in astronomy.
9. Science provides the path to knowledge, not the absolute truth.
10. Compared with the past, increasing safety issues of space agencies make it more and more difficult to have a manned mission to Mars.
11. Priority for government investment should be in human development, not machines.
12. Practice patience before entering Astropolitics.
13. ALMA is the answer, not 42.

Umut Yıldız
Leiden, May 1, 2013