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Probing the inner regions: a multi-wavelength view of accretion and outflow in protoplanetary disks

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Propositions

accompanying the thesis

Probing the inner regions

A multi-wavelength view of accretion and outflow in protoplanetary disks

1. Many transition disks show a lack of mm-dust grains in their inner disks.
(Chapter 2)
2. The ionized mass loss rate – inferred from free-free emission – correlates with the stellar accretion rate in both transition disks and full disks.
(Chapters 2 and 3)
3. The central free-free emission within the cavity of AB Aur is consistent with a precessing jet.
(Chapter 4)
4. Other parameters than just stellar luminosity set the gas temperature in transition and full disks around Herbig and T Tauri stars.
(Chapter 5)
5. Sometimes a blob is just a blob.
6. In astronomy, almost every seminar makes you momentarily wish you were working on someone else's topic.
7. With power comes responsibility – not the privilege of always being right.
8. Work-life balance and mental health should be prioritized in practice, not merely on paper.
9. Plans are not set in stone. Wisdom lies in knowing when to change course.
10. Paper slows your thoughts and captures ideas that would otherwise slip away – even if you never read them again.
11. Bringing coffee to the people you love says “I've got you”; cooking for them says it best.
12. Few activities can equal the therapeutic power of singing Tiziano Ferro out loud after a stressful day.

Alessia A. Rota
20th February 2026