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## **From star-formation to recombination: expanding our view of the radio recombination line universe**

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Propositions accompanying the thesis

## From Star-formation to Recombination

### Expanding our View of the Radio Recombination Line Universe

1. Radio recombination lines from the diffuse interstellar medium are observable at cosmological distances (Chapters 4 and 5).
2. Photoevaporating clouds create filament-like structures of diffuse ionized gas in the Cygnus X galactic star-forming region (Chapter 2).
3. The galaxy NGC 4945 has formed super star clusters in its nuclear starburst (Chapter 3).
4. Low-frequency radio observations provide unique insights in the physics of the interstellar medium (Chapters 2, 4, and 5).
5. Stimulated radio recombination lines are an underutilized tool to study ISM physics.
6. Open-science practices benefit researchers and enable scientific progress.
7. Curiosity, discovering knowledge, and getting ever closer to physical truths should guide the scientific mindset. The goals of scientists should not be conviction and advocacy for their own points of view and proving others right or wrong.
8. Oppression in organizations is set by those with power – those who are leading from upper-level positions – and its presence is always harmful to an organization.
9. Final outcomes do not justify the means to achieve them.
10. Being in the presence of cherished company is essential to a fulfilling and healthy life.

Kimberly L. Emig