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Interaction of Massive Stars with Gas Clouds in the Milky Way

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Propositions
accompanying the dissertation
Interaction of massive stars with gas clouds in the Milky Way
From shooting stars to breaking bubbles

1. Massive star-forming regions contain radio jets indicating that massive star formation might be similar to that observed in low-mass star-forming regions. (Chapter 2)
2. Hydrogen fluoride is a novel tracer of CO-dark H₂ gas. (Chapter 3)
3. Fossil outflows from the Trapezium stars in the Orion Nebula determine the future morphology of the Veil shell. (Chapter 4)
4. Not only fossil outflows of massive stars (O- or B-type), but also active outflows of lower-mass stars play a key role in the dynamics of the ionization fronts of HII regions. (Chapter 5)
5. “Data” have been vital only for scientists up to the early twentieth century, but they are becoming an important aspect of everyone's life in the twenty-first century and beyond. No one will be able to live without data.
6. Learning is a never-ending process for both machines and humans.
7. Multidisciplinary projects must be the focus of all scientists across the world because we all explore the same nature but still lack a proper scientific lexicon between disciplines.
8. All parliamentarians of any country should have at least a MSc degree in whatever subject of any field. They also have to be examined in their language and grammar before they can be sworn in as parliamentarians.
9. Traveling alters a person's personality in such a way that he or she develops into a person who possesses everything necessary to sustain our existence on earth.
10. Everything done regarding anything should incorporate a piece of artwork, music, and/or some ornaments at least.

Groningen, August 2021
Ümit Kavak