



Universiteit  
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## UV Photodesorption and photoconversion of interstellar ices: the laboratory perspective

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Propositions accompanying the thesis  
**UV Photodesorption and Photoconversion of Interstellar Ices – the laboratory perspective**

1. In the case that similar setups provide different experimental values, such as for the photodesorption of  $\text{H}_2\text{O}$  and  $\text{CH}_3\text{OH}$ , the use of another setup based on a different measurement concept is very useful. (Chapters 3 and 5)
2. Experiments with an argon ice cap allow to separate and quantify the effects of UV photoconversion and photodesorption in interstellar ice analogues. (Chapters 3 and 5)
3. Acetonitrile mixed in a water ice is an important solid-state precursor of C-, N-, and O- bearing complex organic molecules, that have been or will be detected in the interstellar medium (Chapter 4).
4. The unexpectedly large  $\text{O}_2$  abundances on comets 67P/Churyumov–Gerasimenko and 1P/Halley can be in part explained by direct photoconversion of water ice. (Chapter 6)
5. It would be motivating research to investigate whether one has to be motivated to perform interesting research.
6. Unpaid requests for peer review should not be paid any attention anymore.
7. Researchers are privileged.
8. With great sensitivity comes great responsibility.
9. A habit of a mindful morning high-five to the person in the mirror sets both up for success.
10. Although writing a speech for one's own funeral might seem dark, it lights one's way in life.
11. Moving around sparks your growth but at the same time, it cuts your roots away.
12. For mutual benefit, employers should provide their employees with an opportunity to complete a workout of the day (WOD).

Michał Bulak  
Leiden, December 9<sup>th</sup> 2021