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## **Winds in the AGN environment : new perspectives from high resolution X-ray spectroscopy**

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Propositions accompanying the thesis

## **Winds in the AGN environment: new perspectives from high resolution X-ray spectroscopy.**

1. There is a galactic-scale AGN wind in 1H 0419-577. (*Chapter 1*)
2. A Comptonization model explains the optical-to-X-ray variable spectrum of 1H 0419-577. (*Chapter 2*)
3. A persistent, cold, black-hole wind has changed the appearance of NGC 5548. (*Chapter 3*)
4. Photoionized gas outflows are present also in radio-loud type 1 AGN. (*Chapter 4*)
5. After the failure of ASTRO-H/Hitomi, any future calorimeter in space would be more useful if some X-ray astronomers are still around.
6. Spectral fitting programs can never judge if the goodness of a fit is just due to an unreasonably large number of parameters, or parameter space.
7. Natural science is different from lab science because each natural phenomenon is unique and out of our control.
8. As long as ionizing phenomena will be present out there, X-ray spectroscopy will remain fundamental for a complete physical description of cosmic media.
9. The logic governing traffic lights in the Netherlands remains mysterious even after a Ph.D. in a Dutch university.
10. The alphabet and the numerical digits that Europeans use every day were not invented in Europe.

Laura Di Gesu, Leiden, June 2016.