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Shining Light on PAHs in Space

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Propositions accompanying the thesis

Shining Light on PAHs in Space

1. PAHs of the size of Coronene are not present in highly UV-irradiated environments (Chapter 3).
2. The observed correlation between H₂ and PAH emission is not linked to H₂ formation on PAHs (Chapter 3).
3. The weak emission bands in the 3 μm spectral region are not carried by PAHs with extra hydrogen atoms (Chapter 3).
4. Tools like the NASA Ames PAH IR Spectroscopic Database are extremely useful, as long as the physics of PAHs is taken into account when using it (Chapter 2).
5. The carriers of the broad emission underneath the PAH bands at 15-20 μm (i.e., the plateau) are not only PAHs.
6. The arguments given in Kwok & Zhang (2013) against the 'PAH hypothesis' are even more applicable to the 'MAON hypothesis' they propose.
7. Scientists should recognize the power of an attractive designed figure/presentation.
8. University research data storage should be carried out as an organized process from the beginning of the PhD until its end.
9. Optional training courses for astronomers who want to make a career in academia should include computational engineering courses, graphic design and pedagogy.
10. 'Digital art' requires as many skills as the 'fine arts'.
11. Men's rhythmic gymnastics should be recognized by the International Federation of Gymnastics.

Heather Andrews
Leiden, May 2017