

KIRSTIN D. DONEY

CONTACT INFORMATION

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RESEARCH INTERESTS

IR spectroscopy of astronomically relevant gas phase hydrocarbon molecules, as well as their evolution in the interstellar medium and planetary atmospheres.

EDUCATION

- Leiden University, The Netherlands; Ph.D. Astronomy (present)
Thesis: *High-Resolution IR Spectroscopy of Astrophysical Radicals and Ions*
Supervisor: Prof.dr. Harold Linnartz
- Leiden University, The Netherlands; MSc. Astronomy 2014
Thesis: *Search for Deuterated PAH features in the Milky Way and Magellanic Clouds*
Supervisor: Prof.dr. A.G.G.M. Tielens
- University of Texas at Austin; B.S. Chemistry; B.A. Astronomy 2011
Research Topic: *Modeling of the YSO IRAS 03245+3002*
Supervisor: Dr. Neal J. Evans II

PUBLICATIONS

First Author Papers

Doney et al., "Deuterated polycyclic aromatic hydrocarbons: Revisited"; *A&A*, 586 (2016) A65

Doney et al., "High-resolution infrared spectrum of triacetylene: The v5 state revisited and new vibrational states"; *JMS*, 316 (2015) 54

Co-author Papers

Zhao et al., "Laboratory gas-phase detection of the cyclopropenyl cation (c-C₃H₃⁺)"; *ApJ*, 791 (2014) L28

Zhao et al., "High-resolution infrared spectra of vibrationally excited HC₄H in a supersonic hydrocarbon plasma jet"; *JMS*, 296 (2014) 1

CONFERENCE PRESENTATIONS

- June 2016. "The IR Detection of Deuterated PAHs in H_{II} Regions" 71st ISMS, Urbana, IL.
August 2015. "High Res. IR Spectra of Jet-Cooled Di-/Tri-Acetylene" HRMS, Dijon, France.
June 2015. "High Res. IR Spectrum of Triacetylene" 70st ISMS, Urbana, IL.
June 2015. "IR CRD Measurements of Astrophysically Relevant Cations" CES, Boulder, CO.
October 2014. "High Res. IR Spectroscopy of Astrophysically Relevant Hydrocarbon Radicals and Ions" 38th NNV Amo, Lunteren, the Netherlands.
July 2014. "NIR Obs. Study of PAH Features in the Milky Way and Magellanic Clouds" The Universe in the Light of AKARI, Oxford, UK.
June 2013. "High Res. IR Spectroscopy of Plasma Jet-Cooled Polyacetylenes by cw-CRDS" 68th ISMS, Columbus, OH.
May 2013. "High Res. IR Spectroscopy of Plasma Jet-Cooled Polyacetylenes in the C-H Stretch Region" 297th IAU Symposium, Noordwijkerhout, the Netherlands.
January 2012. "Observations and Modeling of IRAS 03245+3002" AAS 219th, Austin, TX.

TEACHING EXPERIENCE

- TA for Masters course: Interstellar Medium 2014
Leiden University
- TA for Bachelors course: General Chemistry Lab 2012
University of Texas at Austin
- TA for Bachelors course: Hands-On Science I 2011
University of Texas at Austin

OTHER ACTIVITIES

- Organization Committee Member (297th IAU) 2013