

Publication**Absorptions in the Visible of Protonated Pyrene Collisionally Cooled to 15ÅK****JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 2244800**Author(s)** Hardy, F. -X.; Gause, O.; Rice, C. A.; Maier, J. P.**Author(s) at UniBasel** [Maier, John Paul](#) ; [Gause, Oliver](#) ; [Rice, Corey Allen](#) ; [Hardy, François-Xavier](#) ;**Year** 2013**Title** Absorptions in the Visible of Protonated Pyrene Collisionally Cooled to 15ÅK**Journal** The astrophysical journal. Part 2, Letters**Volume** 778**Number** 2**Pages / Article-Number** L30**Keywords** ISM: general, ISM: lines and bands, ISM: molecules, methods: laboratory: molecular, techniques: spectroscopic

Protonated polycyclic hydrocarbons have been added to the list of suggested carriers of diffuse interstellar absorptions. To test this proposition requires laboratory spectra measured under interstellar conditions, in particular with the rotational and vibrational degrees of freedom equilibrated to low temperatures. This has been achieved for protonated pyrene with absorption bands in the visible, using an ion trap and collisional cooling to ##IMG## [<http://ej.iop.org/icons/Entities/ap.gif>] ≈

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