

Department of Physics and Astronomy

<http://www.phys.ucl.ac.uk/>

**Contact person :** [J. Tennyson](#)

**PA** has a staff of about 200 and a turnover in excess of £11M; it has one of the UK's largest atomic and molecular physics group who have a major activity in the provision and curacy of data sources for atmospheric, astrophysical and plasma modelling work. PA also has significant data users among its astrophysicists and atmospheric physicists.

UCL/PA will lead the activity defining a dictionary and semantics for atomic and molecular data storage and retrieval; will overview the construction of a modern atmospheric database (eHITRAN) in collaboration with Harvard-Smithsonian (home of HITRAN); will participate in activities associated with astrophysical data particularly when involving extremely large datasets.

**Key persons :**

**J. Tennyson** Massey Professor of Physics

Expertise : molecular physics, Water Database.

Role in VAMDC project : Oversight of UCL efforts in general. Lead WP8.

**C. Hill**

Role in VAMDC project : JRA1 : coordination and work on newHITRAN, WP8

**D. Witherick** Postdoctoral Research Associate

Expertise : eLearning and eScience and associated software developments.

Role in VAMDC project : TBA

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