## Laboratory astrophysics in Europe and the ties to various missions

Evelyne Roueff\* February 3, 2006

## Abstract

The forthcoming NASA missions are expected to provide spectral energy distributions and a multitude of molecular line data in a variety of astrophysical environments. Identification, analysis and interpretation of these data in terms of the physical and chemical characteristics of the astronomical sources require a concerted effort by physicists, chemists and astronomers.

Related projects are presently in progress and supported by the European community within the frame of a FP6 network labelled "The Molecular Universe". I will report on such recent achievements and tasks undertaken in different european groups. The areas of molecular spectroscopy, collisional excitation processes and chemical reactions will be addressed specifically.

<sup>\*</sup>Laboratoire Univers et Théorie, UMR 8102 du CNRS, Observatoire de Paris, Section de Meudon, Place Jules Janssen 92195 Meudon, France