

CNRS/LUTH

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**LUTH** (Laboratoire Univers et Théories) is a mixed research unit (UMR 8102) of CNRS, Observatoire de Paris, and Université Paris Diderot. LUTH emphasizes on intensive numerical simulations and interdisciplinarity, two determining aspects of modern research activity in astrophysics. LUTH is strongly implied in the development of the virtual observatory in different domains : VO-Theory, Molecular Physics, High Energy Astrophysics and Exoplanets. These virtual observatory are one of the strategic priorities of Paris Observatory. Services developed at LUTH cover : simulations of the physics of the interstellar medium, large scales simulations in cosmology, molecular data for the spectroscopy in the UV, high energy spectra, exoplanet encyclopedia. Members of LUTH participating to these VO services are often implied both in the development of the services and in the development of the VO standards at international level.

**Key Persons :**

**F. Le Petit** - Senior Paris Observatory researcher  
Expertise: VO-Theory and Grid computing

**F. Roy** - Senior Engineer  
Expertise: VO-Theory and Grid computing

**E. Roueff** - Senior Paris Observatory researcher  
Expertise: Atomic and Molecular standards