

Location of Appointment : Cologne and Lille

TEAM COLOGNE

Team Leader: PD Dr. Thomas Giesen

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TEAM LILLE

Team Leader: Prof. Dr. Georges Wlodarczak

(contact person) :

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Category of position : ER

Duration of Appointment : 24 months (12 months in Cologne and 12 months in Lille)

Expected starting date : September 1, 2006 (in Cologne)

Requirements with respect to candidate : physics, physical chemistry, spectroscopy

Title of Research Project : High Resolution Terahertz Spectroscopy of Small Molecules

General introduction

2 Years Postdoc Position FP6 RTN - Molecular Universe

We invite applications for a 2-years postdoc position within the EU research training network "Molecular Universe". The molecular universe network consists of 21 institutes in 9 countries all active in molecular astrophysics and is funded under the FP6 Marie Curie Research and Training Network Program. Detailed information is available from <http://molecular-universe.obspm.fr/>.

The position is located in Cologne (Germany) for the first year and in Lille (France) for the second year. The work will be supervised by Thomas Giesen (I. Physikalisches Institut - Universität zu Köln -

<http://www.ph1.uni-koeln.de>) and Georges Wlodarczak (PhLAM - Laboratoire de Physique des Lasers, Atomes et Molécules, Lille - <http://www-phlam.univ-lille1.fr>).

Methods

The project focuses on high resolution terahertz spectroscopy of gas phase species that are of astrophysical relevance. Reactive molecules, radicals and molecular ions generated in discharge and laser ablation sources are of particular interest. High resolution Terahertz spectroscopy is used to study these molecules under laboratory conditions for future astronomical detections.

Application

The EU conditions for applicability are listed at the Molecular Universe home page and for this particular position we are looking for a non-German and non-French young researcher, member of an EU or an EU-associated country. Qualified women are particularly encouraged to apply. Within the network, training is provided in a number of related fields and exchange programs between participating groups are standard.

The ideal candidate for this position is an enthusiastic researcher with a good background in experimental physics, physical chemistry and spectroscopy. Experience with supersonic jets, laser ablation techniques and terahertz radiation sources is an advantage.

Send your e-mail application to both, Thomas Giesen (giesen@ph1.uni-koeln.de) and Georges Wlodarczak (Georges.Wlodarczak@phlam.univ-lille1.fr) and arrange for two letters of recommendation. 'SPAM' applications will not be considered. The selection procedure will start in June 2006. We try to fill this position as soon as possible. For additional information please contact Thomas Giesen (giesen@ph1.uni-koeln.de).