



Call for 2014 DESY-ONACPR Fellowship Applicants

Research Laboratory: DESY
Division/Group: FS-CFEL-1/CMI
Supervising scientist: Prof. Jochen Küpper
Email/Phone: jochen.kuepper@desy.de +49-40-8998-6330
Research Field: Physical Chemistry / Molecular Physics, Ultracold Chemistry
Position: Postdoctoral Research in AMO Physics

Research Area:

Cold chemistry aims at the investigation and the utilization of quantum mechanical effects, resonances, and the wave nature of matter in order to control chemical reactions or to create novel materials. We have recently performed first chemical reaction studies of controlled structural-isomer separated complex molecules. In this project we will extend these studies toward complex bi-molecular reactions, such as ring-formation processes, with relevance in biochemistry, combustion, and astrochemistry. The project has experimental as well as computational quantum-chemistry aspects and bridges the AMO physics and chemistry.

See <http://desy.cfel.de/cid/cmi> for details on our research.

Specific Requirements:

1. Highly motivated
2. Strong research ability and team-work spirit
3. Good communication skills in scientific English
4. Background in experimental and/or theoretical AMO physics; strong experience with lasers, ultra-high vacuum, and modern laboratory electronics.

Work Place: Hamburg
Earliest Start: September 2014
Language Requirement: proficiency in scientific and casual English (spoken and written), please note that we require for all candidates proven records of English, e.g. CAE certificate or other certificate with the same level.
Application Code: DESY/2014/4
Further Remarks: