

Postdoctoral Position in Theoretical Chemistry

Topic: Methodology and application of relativistic quantum chemistry. Photoelectron spectra of molecules with heavy elements and corresponding electronic decay processes.

- *) A three-year full position, financed through an approved DFG grant.
- *) Implementation of the two-particle propagator into the DIRAC program system together with a powerful final state analysis.
- *) Calculation of single and double ionization spectra and electronic decay mechanisms by the propagator method; interpretation of experimental spectra; possible extension to lifetime calculations.
- *) Investigation of relativistic effects on electronic decay processes such as Auger decay, Intermolecular Coulombic Decay (ICD) and Electron Transfer Mediated Decay (ETMD) in heavy systems.

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