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The MBI conducts basic research in the field of nonlinear optics and ultrafast dynamics of the interaction of light with matter and pursues applications that emerge from this research. It develops and uses ultrafast and ultra-intense lasers and laser-driven short-pulse light sources in a broad spectral range in combination with methods of nonlinear spectroscopy.

Postdoctoral Position in Theoretical Non-Linear Spectroscopy

Job profile:

The Emmy Noether junior research group at the Max Born Institute for Nonlinear Optics and Short Pulse Spectroscopy, Berlin, offers a PhD position in the field of „Theory of Nonlinear Spectroscopy of Biomolecular Dynamics“ (group leader: Dr. B. Fingerhut). The project focus is development of numerical methods for the real-time description of open quantum systems and complementary microscopic approaches. Applications comprise vibrational dephasing dynamics in condensed phase and non-adiabatic dynamics of biomolecular systems

The junior research group has a close collaboration with the experimental groups of Division C („Nonlinear Processes in Condensed Matter“) and active participation of the candidate in interdisciplinary projects is expected.

Requirements:

Required is a PhD in physics, theoretical chemistry, physical chemistry or in a related area. Profound knowledge of theoretical physics or chemistry is expected. Experience in (quantum) molecular dynamics will be counted as advantage. Programming skills including C, Matlab or python and good ability to communicate in German or English are required.

Offer:

The position is initially for two years with the possibility of extension. The payment is according to the German TVöD (treaty for public German service).

The MBI guarantees an equal opportunity for female and male applicants. Furthermore recognized handicapped applicants with equal qualification will be preferred. The MBI is certified for being a family-oriented company („Audit Beruf und Familie“).

Complete application (motivation letter, CV, copy of degree certificate, transcript of grades, references) are to be sent in electronic form only by **30.06.2017** to Dr. Benjamin Fingerhut (Fingerhut@mbi-berlin.de)