



The group of Stefan W. Hell invites applications for a

**Physics PhD Student Position**

**- Optical Nanoscopy with Molecule-Size Resolution: MINFLUX and Related Concepts -  
(Code Number 18-19)**

New concepts have radically overcome the longstanding limits to optical analysis of molecular systems. Optical resolutions of a few nanometers have been demonstrated, well beyond Abbe's diffraction limit, for example with the recent MINFLUX concept (Science 355, 606-612 (2017)). This opens up entirely new experimental opportunities, breaking new ground in the study of macromolecules and beyond.

The successful candidate will develop advanced optical instrumentation and investigate physical imaging conditions and resolution performance. Alternatively, a related project involving theoretical optical analysis and modelling can be offered. The candidate should have (or expect to complete soon) a Master's or equivalent degree in Physics or Physical Chemistry or a comparable qualification.

Candidates have the opportunity to participate in one of several PhD programs in Göttingen or Heidelberg. Opportunities may also arise from becoming part of the newly established *Max Planck School of Photonics* (see [www.maxplanckschools.de/en/photonics](http://www.maxplanckschools.de/en/photonics) and [www.maxplanckschools.de/en/mission](http://www.maxplanckschools.de/en/mission)) with a competitive admission process.

Payment and benefits are based on the TVöD guidelines. The PhD position is for three years with a possibility of extension.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Please submit your application, including a cover letter (explaining background and motivation), your CV and complete transcripts preferably via e-mail as a single PDF file **until September 30, 2019** to

[ausschreibung18-19@mpibpc.mpg.de](mailto:ausschreibung18-19@mpibpc.mpg.de)

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