

Prof. Dr. Matthias F. Kling

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Experience

2009 – present Assistant Professor, Kansas State University, Manhattan, KS, USA
2008 – present Core faculty member of the International Max-Planck Research School “Advanced Photon Science” (IMPRS-APS, <http://www.mpq.mpg.de/APS/>)
2008 – 2009 Coordinator of the IMPRS-APS
2007 – present Scientific Member and Project Leader of the Munich Excellence Cluster for Advanced Photonics (MAP, <http://www.munich-photonics.de>)
2007 – present Leader of the Emmy-Noether research group “Attosecond Imaging” within the division of F. Krausz, MPQ, Garching, Germany

2004 – 2006 Postdoc with M.J.J. Vrakking, AMOLF, The Netherlands
2003 – 2004 Postdoc with C.B. Harris, Department of Chemistry, UC Berkeley, USA
2002 – 2003 Postdoc with M. Buback, University of Goettingen, Germany

Education

2002 Dr. rer. nat. (with honors), University of Goettingen, Germany
1998 - 2000 Study of Advanced Laser Physics (with certificate), University of Jena, Germany
1998 Physics diploma, University of Goettingen, Germany

Awards and Fellowships

Otto-Wallach-Prize, University of Goettingen (2001); Book-prize, University of Goettingen (2002), Feodor-Lynen fellowship, AvH (2003-2004); Marie Curie IEF fellowship (2004-2006); Emmy-Noether fellow, DFG (2007-present)

Professional Affiliations

German Physical Society (DPG), American Physical Society (APS), Alexander von Humboldt Network (AvH), German Bunsen Foundation for Physical Chemistry (DBG), German Scholars Organization (GSO)

Selected recent invited talks

1. GRC on Multiphoton Processes, June 8-13, 2008, Tilton (USA), “Controlling electron dynamics in molecular dissociation”
2. ICOMP, Sept. 18-23, 2008, Heidelberg (Germany), “Towards light-waveform electronics”
3. DPG spring meeting, March 2-6, 2009, Hamburg (Germany), “And action! Video clips of electron motion in molecules”
4. ICPEAC, July 22-28, 2009, Kalamazoo (USA), “Attosecond electron dynamics in molecules and nanostructures”

Selected recent publications

1. De *et al.*, Field-free orientation of CO molecules by femtosecond two-color laser fields, *Phys.Rev.Lett.* **103** (2009) 153002.
2. Znakovskaya *et al.*, Attosecond control of electron dynamics in a multi-electron molecule, *Phys.Rev.Lett.* **103** (2009) 103002.
3. R. Gopal *et al.*, Electron wavepacket interferences pointing towards holographic imaging with few-cycle laser pulses, *Phys.Rev.Lett.* **103** (2009) 053001.
4. M.F. Kling and M.J.J. Vrakking, Attosecond Electron Dynamics, *Annu.Rev.Phys.Chem.* **59**, 463 (2008).
5. M.I. Stockman *et al.*, Attosecond nanoplasmonic field microscope, *Nature Phot.* **1**, 539 (2007).
6. M. Uiberacker *et al.*, Attosecond real-time observation of electron tunneling in atoms, *Nature* **446**, 627 (2007).
7. M.F. Kling *et al.*, Control of Electron Localization in Molecular Dissociation, *Science* **312**, 246 (2006).