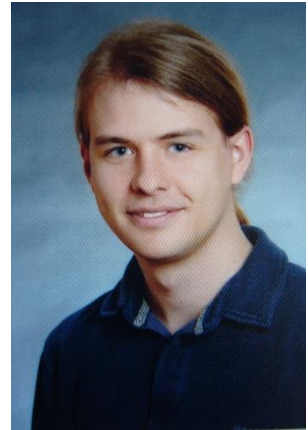


# Curriculum Vitae

## Personal data:

**Name:** Dr. Florian Thomas Köhler-Langes  
**Name of birth:** Florian Thomas Köhler  
**Date of birth:** 18. October 1984, born in Bonn  
**Marital status:** One child



## Education

**Aug. 1991 – Jun. 1995** Kaland-Schule in Lübeck, Grundschule  
**Aug. 1995 – Jun. 2004** Thomas-Mann-Schule in Lübeck, Gymnasium and European School  
**Oct. 2004 – Jun. 2005** Civilian service at the Universitätsklinikum Schleswig-Holstein in Lübeck  
**Oct. 2005 – Feb. 2011** Studies in physics at the University of Göttingen

## Research Experience

**Jun. 2008 – Aug. 2008** Summer student at ATLAS / CERN / Switzerland  
**Sep. 2008 – Feb. 2009** ERASMUS student at the University of Lyon / France  
**February 2011** Diploma in Physics “*Performance Study of a Diamond Pixel Detector Prototype for Future ATLAS Upgrades*“, Division: 2<sup>nd</sup> Institute of Physics in Göttingen (Prof. Dr. Arnulf Quadt)  
**Mar. 2011 – Sep. 2011** Research assistant at the Max Planck Institute for Dynamics and Self-Organization in Göttingen, Division: Laboratory for Fluid Dynamics (Prof. Dr. Eberhard Bodenschatz)  
**Oct. 2011 - Jul. 2015** Doctoral candidate in atomic physics at the University of Heidelberg, supervisor: PD. Dr. Wolfgang Quint  
**July 2015** Graduation as Dr. rer. nat. in physics, “*Bound-Electron g-Factor Measurements for the Determination of the Electron Mass and Isotope Shifts in Highly Charged Ions*“, Grade: s.c.l.  
**Since Aug. 2015** Postdoc at the Max Planck Institute for Nuclear Physics in Heidelberg, Division: Stored and Cooled Ions (Prof. Dr. Klaus Blaum)

## Research Interests

- High-precision tests of QED in strong fields
- High-precision mass measurements
- Ion trapping, production, detection and cooling

## Research Highlights

**February 2014** High-Precision Measurement of the Atomic Mass of the Electron, S. Sturm, F. Köhler *et al.*, *Nature* **506**, 467-470 (2014)

- January 2016** Isotope Dependence of the Zeeman Effect in Lithium-Like Calcium, F. Köhler *et al.*, *Nature Communications* **7**, 10246 1-8 (2016)
- July 2017** High-Precision Measurement of the Proton's Atomic Mass, F. Heiße, F. Köhler-Langes *et al.*, *Phys. Rev. Lett.* **119**, 033001 (2017)

## Political and Social Activities

- 1998 - 2004** Organizing and participating in several Model United Nation (MUN) conferences
- Oct. 2012 – Oct. 2015** Supporting activities of Save Me Mainz (see: [www.welcome-mainz.de](http://www.welcome-mainz.de))
- Since Oct. 2012** Mentor of the Save Me Mainz initiative “Welcome Mainz”
- Since Sept. 2016** Conception and partial initialisation of a global movement and party, the One World Movement (OWM) (see: [www.oneworldmovement.eu](http://www.oneworldmovement.eu))
- Since Sept. 2018** Supporting Volt

## Awards & Talks

- 2000, 2001, 2003** Multiple awards at the national level (Bundeswettbewerb) of the contest *Jugend musiziert*, instrument: classical guitar (solo and duo)
- 2013 – 2018** Talks at several international conferences (often as an invited speaker):
- Enrico Fermi School on Trapped Ions, Varenna / Italy
  - 3<sup>rd</sup> Workshop on the Physics of Fundamental Symmetries and Interactions at Low Energies and the Precision Frontier, Villigen / Switzerland
  - 46<sup>th</sup> Conference of the European Group on Atomic Systems in Lille / France
  - Final Event of the COST Action MP1001, Marseille / France
  - 49<sup>th</sup> Conference of the European Group on Atomic Systems, Durham / England
  - Plenary talks at the DPG spring meetings 2018 in Erlangen and Bochum
  - 7<sup>th</sup> International Symposium on Symmetries in Subatomic Physics, Aachen
  - 7<sup>th</sup> International Conference on Trapped Charged Particles and Fundamental Physics, Traverse City / USA

## Hobbies

- Instruments:** Classical guitar (solo and duo), double bass (solo and orchestra), electrical guitar (bands)
- Music projects:** Participant of several master courses (Rotenburger Gitarrenwoche, Bremen Guitar Art), orchestra projects (Landesjugendorchester Schleswig-Holstein, Akademische Orchestervereinigung) and rock band projects
- Miscellaneous** Lindy Hop (beginner)  
Canoeing  
Exploring our planet at several camping and backpacker trips

Mainz, 17. October 2018

*Florian Köhler-Langes*