

Curriculum vitae

Robert Peters

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Personal Data

name	Robert Peters
date of birth	December 15th, 1981
place of birth	Karl-Marx Stadt (today Chemnitz), Germany
citizenship	German

Education

2006	Diploma in physics, University of Goettingen
2010	Ph.D. in science, University of Goettingen

Ph.D.

subject	Natural Science (physics)
title	Magnetic Phases in the Hubbard Model
supervisor	Prof. Dr. Thomas Pruschke
date	12.02.2010

Funding

2006-2009	German Science Foundation Financial support during the PhD thesis
2010-2011	Fellowship by the Humboldt foundation and the Japanese Society for the Promotion of Science
2010-2011	JSPS Grant-in-Aid
2018-2022	Grant-in-Aid for Scientific Research-C (KIBAN) , “Novel phenomena in topological Kondo insulator”
2018-2019	Grant-in-Aid for Scientific Research on Innovative Areas - Invited Research , “Magnetolectric transport in non-centrosymmetric f-electron materials”

Professional experience

2006-2010	research and teaching assistant , University of Goettingen
2010	Postdoc , University of Goettingen.
2010-2014	Postdoc , Kyoto University, Japan.
2014-2015	Special Postdoctoral Researcher , RIKEN (Wako)
01.12.2015 -	Senior Lecturer/ Junior Associate Professor , Kyoto University

Recent and important publications

1. “Reduction of Topological Z Classification in Cold-Atom Systems”
Tsuneya Yoshida, Ipei Danshita, Robert Peters, and Norio Kawakami; Phys. Rev. Lett. **121** 025301
2. “Non-Hermitian perspective of the band structure in heavy-fermion systems”
Tsuneya Yoshida, Robert Peters, and Norio Kawakami; Physical Review B **98**, 035141
3. “Magnetic states in a three-dimensional topological Kondo insulator”
Robert Peters, Tsuneya Yoshida, and Norio Kawakami; Physical Review B **98**, 075104
4. “Coexistence of light and heavy surface states in a topological multiband Kondo insulator”
R. Peters, T. Yoshida, H. Sakakibara, N. Kawakami; Phys Rev B **93** 235159
5. “Large and Small Fermi-Surface Spin Density Waves in the Kondo Lattice Model”
R. Peters and N. Kawakami, Phys. Rev. B **92**, 075103
6. “Characterization of a topological Mott insulator in one dimension”
T. Yoshida, R. Peters, S. Fujimoto, and N. Kawakami, Phys. Rev. Lett. **112** 196404
7. “Multistep Approach to Microscopic Models for Frustrated Quantum Magnets: The Case of the Natural Mineral Azurite” 17 authors, , including R. Peters and A. Honecker; Phys. Rev. Lett. **106** (217201)

— Languages

German	mother tongue
English	fluently
Japanese	fluently