

BIOGRAPHICAL SKETCH

Frank Steglich

AFFILIATION: Max Planck Institute
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PROFESSIONAL PREPARATION

University of Göttingen, Germany	1963	"Vordiplom" in Physics
	1966	"Diplom" in Physics
	1969	"Dr. rer. nat."
University of Köln, Germany	1969-76	Postdoctoral Fellow
	1976	"Habilitation" in Physics

APPOINTMENTS

1966 - 1969	"Wissenschaftlicher Assistent" (Research Fellow), University of Göttingen, Germany
1969 - 1976	"Wissenschaftlicher Assistent" (Research Fellow), University of Köln, Germany
1976 - 1978	"Privatdozent" (Lecturer), University of Köln, Germany
1978 - 1980	Professor of Physics (C3), Technical University (TU) Darmstadt, Germany
1980 - 1998	Professor of Physics (C4), TU Darmstadt, Germany
1996 - 2012	Founding Director and Director of the Research Area Solid-State Physics, Max Planck Institute for Chemical Physics of Solids (MPI CPfS), Dresden, Germany
1999 - present	Honorary Professor, TU Dresden, Germany
2012 - present	Director emeritus, MPI CPfS, Dresden, Germany
2012 - present	Founding Director, Center for Correlated Matter (CCM), Zhejiang University (ZJU), Hangzhou, China

HONORS

1986 - 87	Academy Stipend, Volkswagen Foundation
1986	Gottfried Wilhelm Leibniz Prize, German Research Foundation (Deutsche Forschungsgemeinschaft, DFG)
1986 - 2007	Several Named Lectures in Germany and abroad
1989	Hewlett Packard Europhysics Prize, European Physical Society (EPS), with G.G. Lonzarich and H.R. Ott
1989	Humboldt Award for the Promotion of the Scientific Cooperation between France and the Federal Republic of Germany (Gay Lussac Humboldt Prize)
1990	International Prize for New Materials (James C. McGroddy Prize), American Physical Society, with Z. Fisk, H.R. Ott and J.L. Smith
1996	Honorary Professorship, W. Trzebiatowski Institute for Low Temperature and Structure Research (INTiBS), Polish Academy of Sciences (PAN), Wrocław, Poland
1999	Corresponding Member, Academy of Sciences, Göttingen, Germany
1999	Corresponding Member, Academy of Sciences of Saxony, Leipzig, Germany
2000	IUPAP Magnetism Award, ICM 2000, Recife, Brazil
2002	Member, Convent for Technical Sciences of the Union of German Sciences (acatec)
2000	Honorary Doctorate, University of Augsburg, Germany
2004	Stern-Gerlach Medal, German Physical Society (Deutsche Physikalische Gesellschaft, DPG)
2005	Honorary Doctorate, University of Frankfurt/Main, Germany
2005	Honorary Doctorate, University of Köln, Germany
2005	Order of Merit, Federal Republic of Germany (Das große Verdienstkreuz des Bundesverdienstordens der Bundesrepublik Deutschland)
2006	Bernd T. Matthias Prize for Superconducting Materials, 2006 M ² S, Dresden, Germany
2008	Honorary Doctorate, Jagiellonian University, Kraków, Poland
2010	Foreign Member, Polish Academy of Sciences

2012 - present	Qiushi Distinguished Visiting Professor, ZJU, Hangzhou, China
2012 - present	Distinguished Visiting Professor, Institute of Physics (IOP), Chinese Academy of Sciences (CAS), Beijing, China
2015	Fellow of the American Physical Society (APS)
2018	West Lake Friendship Award, Zhejiang Province, China

PUBLICATIONS, PATENTS

More than 890 publications in refereed journals and books, 2 patents.

Selected publications since 2010

- EVIDENCE FOR THE PRESENCE OF A FULDE-FERRELL-LARKIN-OVCHINNIKOV STATE IN CeCu₂Si₂ REVEALED BY ⁶³Cu NMR; S. Kitagawa, G. Nakamine, K. Ishida, H.S. Jeevan, C. Geibel and F. Steglich; *Phys. Rev. Lett.* **121**, 157004 (2018).
- EVIDENCE FOR WEYL FERMIONS IN A CANONICAL HEAVY-FERMION SEMIMETAL YbPtBi; C.F. Guo, F. Wu, Z.Z. Wu, M. Smidman, C. Cao, A. Bostwick, C. Jozwiak, E. Rotenberg, Y. Liu, F. Steglich and H.Q. Yuan; *Nature Commun.* **9**, 4622 (2018).
- MAGNETIC AND DEFECT PROBES OF THE SmB₆ SURFACE STATE; L. Jiao, S. Rößler, C. Guo, C.-X. Liu, Z. Fisk, F. Steglich and S. Wirth; *Sci. Adv.* **4**, eaau 4886 (2018).
- INTERPLAY BETWEEN UNCONVENTIONAL SUPERCONDUCTIVITY AND HEAVY-FERMION QUANTUM CRITICALITY: CeCu₂Si₂ VERSUS YbRh₂Si₂; M. Smidman, O. Stockert, J. Arndt, G.M. Pang, L. Jiao, H.Q. Yuan, H.A. Vieyra, S. Kitagawa, K. Ishida, K. Fujiwara, T.C. Kobayashi, E. Schuberth, M. Tippmann, L. Steinke, S. Lausberg, M. Brando, H. Pfau, U. Stockert, P. Sun, S. Friedemann, S. Wirth, C. Krellner, S. Kirchner, E.M. Nica, R. Yu, Q. Si and F. Steglich; *Phil. Mag.* **98**, 2930 (2018).
- EVOLUTION OF THE KONDO LATTICE AND NON-FERMI LIQUID EXCITATIONS IN A HEAVY-FERMION METAL; S. Seiro, L. Jiao, S. Kirchner, S. Hartmann, S. Friedemann, C. Krellner, C. Geibel, Q. Si, F. Steglich and S. Wirth; *Nature Commun.* **9**, 3324 (2018).
- FULLY GAPPED *d*-WAVE SUPERCONDUCTIVITY IN CeCu₂Si₂; G.M. Pang, M. Smidman, J.L. Zhang, L. Jiao, Z.F. Weng, E.M. Nica, Y. Chen, W.B. Jiang, Y.J. Zhang, H.S. Jeevan, H. Lee, P. Gegenwart, F. Steglich, Q. Si, H.Q. Yuan; *Proc. Natl. Acad. Sci. USA* **115**, 5343 (2018).
- KONDO DESTRUCTION IN A QUANTUM PARAMAGNET WITH MAGNETIC FRUSTRATION; J.H. Zhang, H.C. Zhao, M. Lv, Y. Isikawa, Y.F. Yang, Q. Si, F. Steglich and P. Sun; *Phys. Rev. B* **97**, 235117 (2018).
- POSSIBLE WEYL FERMIONS IN THE MAGNETIC KONDO SYSTEM CeSb; C. Y. Guo, C. Cao, M. Smidman, F. Wu, Y. J. Zhang, F. Steglich, F. C. Zhang and H. Q. Yuan; *npg Quantum Materials* **2**: 39 (2017).
- ADDITIONAL ENERGY SCALE IN SmB₆ AT LOW TEMPERATURE; L. Jiao, S. Rößler, D. J. Kim, L. H. Tjeng, Z. Fisk, F. Steglich and S. Wirth; *Nature Commun.* **7**, 13762 (2016).
- GIANT ISOTROPIC NERNST EFFECT IN AN ANISOTROPIC KONDO SEMIMETAL; U. Stockert, P. Sun, N. Oeschler, F. Steglich, T. Tabatabaie, P. Coleman and S. Paschen; *Phys. Rev. Lett.* **117**, 216401 (2016).
- TWO-CHANNEL KONDO PHYSICS DUE TO As VACANCIES IN THE LAYERED COMPOUND ZrAs_{1.58}Se_{0.39}; T. Cichorek, L. Bochenek, M. Schmidt, A. Czulucki, G. Auffermann, R. Kniep, R. Niewa, F. Steglich and S. Kirchner; *Phys. Rev. Lett.* **117**, 106601 (2016).
- EXPLORING HEAVY FERMIONS FROM MACROSCOPIC TO MICROSCOPIC LENGTH SCALES; S. Wirth, and F. Steglich; *Nat. Rev. Mater.* **1**, 16051 (2016).
- FOUNDATIONS OF HEAVY-FERMION SUPERCONDUCTIVITY: LATTICE KONDO EFFECT AND MOTT PHYSICS; F. Steglich and S. Wirth; *Rep. Progr. Phys.* **79**, 084502 (2016).
- TWO-GAP SUPERCONDUCTIVITY IN LaNiGa₂ WITH NONUNITARY TRIPLET PAIRING AND EVEN PARITY SYMMETRY; Z.F. Weng, J.L. Zhang, M. Smidman, T. Shang, J. Quintanilla, J.F. Annett, M. Nicklas, G.M. Pang, L. Jiao, W.B. Jiang, Y. Chen, F. Steglich and H.Q. Yuan; *Phys. Rev. Lett.* **117**, 027001 (2016); Editors' Suggestion.
- EMERGENCE OF SUPERCONDUCTIVITY IN THE CANONICAL HEAVY-ELECTRON METAL YbRh₂Si₂; E. Schuberth, M. Tippmann, L. Steinke, S. Lausberg, A. Steppke, M. Brando, C. Krellner, C. Geibel, R. Yu, Q. Si and F. Steglich; *Science* **351**, 485 (2016).
- KONDO DESTRUCTION IN HEAVY FERMION QUANTUM CRITICALITY AND THE PHOTOEMISSION SPECTRUM OF YbRh₂Si₂; S. Paschen, S. Friedemann, S. Wirth, F. Steglich, S. Kirchner and Q. Si; *J. Magn. Magn. Mat.* **400**, 17 (2016).
- WEAK INTERBAND-COUPLING SUPERCONDUCTIVITY IN THE FILLED SKUTTERUDITE LaPt₄Ge₁₂; J.L. Zhang, G.M. Pang, L. Jiao, M. Nicklas, Y. Chen, Z.F. Weng, W. Schnelle, A. Leithe-Jasper, A. Maisuradze, C. Baines, R. Khasanov, A. Amato, F. Steglich, R. Gumeniuk and H.Q. Yuan; *Phys. Rev. B* **92**, 220503 (R) (2015).
- EMERGENCE OF AN INCIPIENT ORDERING IN FeSe; S. Rößler, C. Koz, L. Jiao, U.K. Rößler, F. Steglich, U. Schwarz and S. Wirth; *Phys. Rev. B* **92** (R), 060505 (2015).
- LARGE SEEBECK EFFECT BY CHARGE-MOBILITY ENGINEERING; P. Sun, B. Wei, J. Zhang, J.M. Tomczak, A.M. Strydom, M. Søndergaard, B.B. Iversen and F. Steglich; *Nature Commun.* **6**, 7475 (2015).
- FERMI SURFACE RECONSTRUCTION AND MULTIPLE QUANTUM PHASE TRANSITIONS IN THE ANTIFERROMAGNET CeRhIn₅; L. Jiao, Y. Chen, Y. Kohama, D. Graf, E.D. Bauer, J. Singleton, J.-X. Zhu, Z.

- Weng, G. Pang, T. Shang, J.L. Zhang, H.-O. Lee, T. Park, M. Jaime, J.D. Thompson, F. Steglich, Q. Si and H.Q. Yuan; *Proc. Natl. Acad. Sci. USA* **112**, 673 (2015).
- HYBRIDIZATION GAP AND FANO RESONANCE IN SmB_6 ; S. Rößler, T.-H. Jang, D.J. Kim, L.H. Tjeng, Z. Fisk, F. Steglich and S. Wirth; *Proc. Natl. Acad. Sci. USA* **111**, 4798 (2014).
 - EVIDENCE OF A KONDO DESTROYING QUANTUM CRITICAL POINT IN YbRh_2Si_2 ; F. Steglich, H. Pfau, S. Lausberg, S. Hamann, P. Sun, U. Stockert, M. Brando, S. Friedemann, C. Krellner, C. Geibel, S. Wirth, S. Kirchner, E. Abrahams and Q. Si; *J. Phys. Soc. Jpn.* **83**, 061001 (2014).
 - CONTIGUOUS $3d$ - AND $4f$ -MAGNETISM: TOWARDS STRONGLY CORRELATED $3d$ -ELECTRONS IN $\text{YbFe}_2\text{Al}_{10}$; P. Kunthia, P. Peratheepan, A. Strydom, Y. Utsumi, K.-T. Ko, K.-D. Tsuei, L.H. Tjeng, F. Steglich and M. Baenitz; *Phys. Rev. Lett.* **113**, 216403 (2014).
 - RESONANT CHARGE RELAXATION AS A LIKELY SOURCE OF THE ENHANCED THERMOPOWER IN FeSi ; P. Sun, B. Wei; D. Menzel and F. Steglich; *Phys. Rev. B* **90**, 245146 (2014).
 - THERMODYNAMIC EVIDENCE FOR VALLEY-DEPENDENT DENSITY OF STATES IN BULK BISMUTH; R. Kuchler, L. Steinke, R. Daou, M. Brando, M. Brando, K. Behnia and F. Steglich; *Nature Mater.* **13**, 461 (2014).
 - THE FIRST BINARY COMPOUND OF COBALT AND BISMUTH: CoBi_3 - A NEW SUPERCONDUCTOR; U. Schwarz, S. Tencé, O. Janson, C. Koz, C. Krellner, U. Burkhardt, H. Rosner, F. Steglich and Y. Grin; *Angew. Chem. Int. Ed.* **52**, 9853 (2013).
 - INTERPLAY BETWEEN KONDO SUPPRESSION AND LIFSHITZ TRANSITIONS IN YbRh_2Si_2 AT HIGH MAGNETIC FIELDS; H. Pfau, R. Daou, S. Lausberg, H.R. Naren, M. Brando, S. Friedemann, S. Wirth, T. Westerkamp, U. Stockert, P. Gegenwart, C. Krellner, C. Geibel, G. Zwicky and F. Steglich; *Phys. Rev. Lett.* **110**, 256403 (2013).
 - DOPED YbRh_2Si_2 : NOT ONLY FERROMAGNETIC CORRELATIONS BUT FERROMAGNETIC ORDER; S. Lausberg, A. Hannaske, A. Steppke, L. Steinke, T. Gruner, L. Pedrero, C. Krellner, C. Klingner, M. Brando, C. Geibel and F. Steglich; *Phys. Rev. Lett.* **110**, 256402 (2013).
 - NERNST EFFECT: EVIDENCE OF LOCAL KONDO SCATTERING IN HEAVY FERMIONS; P. Sun and F. Steglich; *Phys. Rev. Lett.* **110**, 216408 (2013).
 - FERROMAGNETIC QUANTUM CRITICAL POINT IN THE HEAVY-FERMION METAL $\text{YbNi}_4(\text{P}_{1-x}\text{As}_x)_2$; A. Steppke, R. Kuchler, S. Lausberg, E. Lengyel, L. Steinke, R. Borth, T. Lühmann, C. Krellner, M. Nicklas, C. Geibel, F. Steglich and M. Brando; *Science* **339**, 933 (2013).
 - EVIDENCE FOR TWO-GAP SUPERCONDUCTIVITY IN THE NON-CENTROSYMMETRIC COMPOUND LaNiC_2 ; J. Chen, L. Jiao, J.L. Zhang, Y. Chen, L. Yang, M. Nicklas, F. Steglich and H.Q. Yuan; *New J. Phys.* **15**, 053005 (2013).
 - HIGHLY DISPERSIVE ELECTRON RELAXATION AND COLOSSAL THERMOELECTRICITY IN THE CORRELATED SEMICONDUCTOR FeSb_2 ; P. Sun, W. Xu, J.M. Tomczak, G. Kotliar, M. Sondergaard, B.B. Iversen and F. Steglich; *Phys. Rev. B* **88**, 245203 (2013).
 - OPTICAL STUDY OF ARCHETYPICAL VALENCE-FLUCTUATING EU-SYSTEMS; V. Guritanu, S. Seiro, J. Sichelschmidt, N. Caroca-Canales, T. Iizuka, S. Kimura, C. Geibel and F. Steglich; *Phys. Rev. Lett.* **109**, 247207 (2012).
 - CHARGE-DOPING DRIVEN EVOLUTION OF NON-FERMI-LIQUID BEHAVIOR IN THE FILLED SKUTTERUDITE $\text{CePt}_4\text{Ge}_{12-x}\text{Sb}_x$; M. Nicklas, S. Kirchner, R. Borth, R. Gumeniuk, W. Schnelle, H. Rosner, H. Borrmann, A. Leithe-Jasper, Yu. Grin and F. Steglich; *Phys. Rev. Lett.* **109**, 236405 (2012).
 - AVOIDED FERROMAGNETIC QUANTUM CRITICAL POINT: UNUSUAL SHORT-RANGE ORDERED STATE IN CeFePO ; S. Lausberg, J. Spehling, A. Steppke, A. Jesche, H. Luetkens, C. Krellner, C. Geibel, M. Brando, H.-H. Klauß and F. Steglich; *Phys. Rev. Lett.* **109**, 216401 (2012).
 - DETERMINING THE IN-PLANE ORIENTATION OF THE GROUND-STATE ORBITAL OF CeCu_2Si_2 ; T. Willers, F. Strigari, N. Hiraoka, Y.Q. Cai, M.W. Haverkort, K.-D. Tsuei, Y.F. Liao, S. Seiro, C. Geibel, F. Steglich, L.H. Tjeng and A. Severing; *Phys. Rev. Lett.* **109**, 046401 (2012).
 - SINGLE-ION KONDO SCALING OF THE COHERENT FERMI LIQUID REGIME IN $\text{Ce}_{1-x}\text{La}_x\text{Ni}_2\text{Ge}_2$; A.P. Pikul, U. Stockert, A. Steppke, T. Cichorek, S. Hartmann, N. Caroca-Canales, N. Oeschler, M. Brando, C. Geibel and F. Steglich; *Phys. Rev. Lett.* **108**, 066405 (2012).
 - THERMAL AND ELECTRICAL TRANSPORT ACROSS A MAGNETIC QUANTUM CRITICAL POINT; H. Pfau, S. Hartmann, U. Stockert, P. Sun, S. Lausberg, M. Brando, S. Friedemann, C. Krellner, C. Geibel, S. Wirth, S. Kirchner, E. Abrahams, Q. Si and F. Steglich; *Nature* **484**, 493 (2012).
 - HALL EFFECT IN HEAVY FERMION METALS; S. Nair, S. Wirth, S. Friedemann, F. Steglich, Q. Si and A.J. Schofield; *Adv. Phys.* **61**, 583 (2012).
 - SUPERCONDUCTIVITY IN Ce- AND U- BASED "122" HEAVY FERMION COMPOUNDS; O. Stockert, S. Kirchner, F. Steglich and Q. Si; *J. Phys. Soc. Jpn.* **81**, 011001 (2012).
 - STRONG ELECTRON CORRELATIONS IN FeSb_2 ; P. Sun, M. Sondergaard, B.B. Iversen and F. Steglich; *Ann. Phys.* **523**, 612 (2011).
 - EMERGENCE OF LOCAL KONDO SCREENING AND SPATIAL COHERENCE IN THE HEAVY FERMION METAL YbRh_2Si_2 ; S. Ernst, S. Kirchner, C. Krellner, C. Geibel, G. Zwicky and F. Steglich and S. Wirth; *Nature* **474**, 362 (2011).
 - HEAVY-FERMION SUPERCONDUCTIVITY; F. Steglich; In: *100 Years of Superconductivity*, P. Kes and H. Rogalla (eds.), CRC Press (2011) p. 283.
 - PRESSURE TUNING OF THE INTERPLAY OF MAGNETISM AND SUPERCONDUCTIVITY IN A/S-TYPE CeCu_2Si_2 ; E. Lengyel, M. Nicklas, H.S. Jeevan; C. Geibel and F. Steglich; *Phys. Rev. Lett.* **107**, 057001 (2011).

- MAGNETICALLY DRIVEN SUPERCONDUCTIVITY IN CeCu₂Si₂; O. Stockert, J. Arndt, E. Faulhaber, C. Geibel, H.S. Jeevan, S. Kirchner, M. Loewenhaupt, K. Schmalzl, W. Schmidt, Q. Si and F. Steglich; *Nature Phys.* **7**, 119 (2011).
- DETERMINATION OF GAP SYMMETRY FROM ANGLE-DEPENDENT H_{c2} MEASUREMENTS ON CeCu₂Si₂; H.A. Vieyra, N. Oeschler, S. Seiro, H.S. Jeevan, C. Geibel, D. Parker and F. Steglich; *Phys. Rev. Lett.* **106**, 207001 (2011).
- SPIN FLUCTUATIONS IN THE NORMAL STATE OF CeCu₂Si₂ ON APPROACHING THE QUANTUM CRITICAL POINT; J. Arndt, O. Stockert, H.S. Jeevan, C. Geibel, F. Steglich, E. Faulhaber, M. Loewenhaupt, K. Schmalzl and W. Schmidt; *Phys. Rev. Lett.* **106**, 246401 (2011).
- UNCONVENTIONAL QUANTUM CRITICALITY IN HEAVY FERMION COMPOUNDS; O. Stockert and F. Steglich; *Annu. Rev. Condens. Matter Phys.* **2**, 79 (2011).
- FERMI-SURFACE COLLAPSE AND DYNAMICAL SCALING NEAR A QUANTUM CRITICAL POINT; S. Friedemann, N. Oeschler, S. Wirth, C. Krellner, C. Geibel, F. Steglich, S. Paschen, S. Kirchner and Q. Si; *Proc. Natl. Acad. Sci. USA* **107**, 14547 (2010).
- MAGNETISM AND SUPERCONDUCTIVITY DRIVEN BY IDENTICAL 4f STATES IN A HEAVY FERMION METAL; S. Nair, O. Stockert, U. Witte, M. Nicklas, R. Schedler, K. Kiefer, J.D. Thompson, A.D. Bianchi, Z. Fisk, S. Wirth and F. Steglich; *Proc. Natl. Acad. Sci. USA* **107**, 9537 (2010).
- THERMOPOWER EVIDENCE FOR AN ABRUPT FERMI SURFACE CHANGE AT THE QUANTUM CRITICAL POINT OF YbRh₂Si₂; S. Hartmann, N. Oeschler, C. Krellner, C. Geibel, S. Paschen and F. Steglich; *Phys. Rev. Lett.* **104**, 096401 (2010).
- HEAVY FERMIONS AND QUANTUM PHASE TRANSITIONS; Q. Si and F. Steglich; *Science* **329**, 1161 (2010).

SYNERGISTIC ACTIVITIES SINCE 2000

Member, Founding Committee of the Laboratory for Pulsed High Magnetic Fields Dresden (HLD), Dresden, Germany, 1999/2000

Vice President, DFG, 2001 - 2007

Member, Board of Governors, German-Israeli Foundation (GIF), 2002 – 2007

Member, International Advisory Board, Institute for Materials Research (IMR), Tohoku University; Sendai, Japan, 2003

Member, External Advisory Committee, National High Magnetic Field Laboratory (NHMFL), Florida State University, Tallahassee, USA, 2003 - 2008

Chairman, Scientific Advisory Board of the Center for "Electronic Correlations and Magnetism" (EKM), University of Augsburg, Germany, since 2006

Member, Scientific Committee, Einstein Foundation, Berlin, Germany, since 2012

COLLABORATORS AT OTHER AFFILIATIONS

T. Cichorek, D. Kaczorowski, A. Pikul and W. Suski (INTiBS, PAN, Wrocław, Poland), P. Coleman (Rutgers University, Piscataway, NJ, USA), Z. Fisk (UC Irvine, CA, USA), S. Friedemann (University of Bristol, UK), P. Gegenwart and A. Loidl (University of Augsburg, Germany), K. Ishida (University of Kyoto, Japan), T. Kasuya (Tohoku University, Sendai, Japan), C. Krellner, M. Lang and J. Müller (University, Frankfurt/M., Germany), M. Loewenhaupt (TU Dresden, Germany), K. Miyake (Osaka University, Japan), S. Paschen (TU Vienna, Austria), N.E. Phillips (UC Berkeley, CA, USA), N.K. Sato (University of Nagoya, Japan), Q. Si (Rice University, Houston, TX, USA), A.M. Strydom (University of Johannesburg, South Africa), P. Sun (IOP, CAS, Beijing, China), J. D. Thompson (Los Alamos National Laboratory, NM, USA), H. von Löhneysen (KIT, Karlsruhe, Germany), N.L. Wang (Peking University, Beijing, China), R. Yu (Renmin University, Beijing, China), S. Kirchner, X. Lu and H.Q. Yuan (Zhejiang University, Hangzhou, China)

GRADUATE AND POSTDOCTORAL ADVISORS

Graduate advisor: R. Hilsch, University of Göttingen, Germany

Postdoctoral advisors: G. von Minnigerode and D.K. Wohlleben, University of Köln, Germany

DIPLOMA AND DOCTORAL THESIS ADVISING

Diploma students: ≈ 120

Doctoral students ≈ 60

among them: P.A. van Aken (presently at Max Planck Institute for Intelligent Systems, Stuttgart, Germany), D. Meschede (University of Bonn, Germany), S. Horn and P. Gegenwart (University of Augsburg, Germany), K. Gloos (University of Turku, Finland), M. Lang, J. Müller and C. Krellner (University of Frankfurt/M., Germany), H.Q. Yuan (ZJU, Hangzhou, China), A. Bentien (University of Århus, Denmark), S. Friedemann (University of Bristol, UK)

Postdoctoral fellows: ≈ 40

among them: N.L. Wang (Peking University, Beijing, China), D. Kaczorowski, T. Cichorek and A. Pikul (INTiBS, PAN, Wrocław, Poland), N.K. Sato (Nagoya University, Japan), S. Süllo (TU Braunschweig, Germany), S. Paschen (TU Vienna, Austria), T. Tayama (University of Toyama, Japan), F.M. Grosche (Cavendish Laboratory,

University of Cambridge, UK), K. Tenya (Shinshu University, Nagano, Japan), R. Viennois (CNRS, University of Montpellier, France), C.F. Miclea (National Institute for Materials Research, Bukarest, Romania), J. Haase (University of Leipzig, Germany), Y. Tokiwa (University of Augsburg, Germany), R. Daou (CNRS, University of Caën, France)