

Thomas Vojta
Associate Professor of Physics
Missouri University of Science and Technology
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Mail address: Department of Physics, Missouri University of Science and Technology,
1315 N. Pine Street, Rolla, MO 65409-06403, USA
Phone: +1 573 341-4793, fax +1 573 341-4715, home phone +1 573 426-3038
Email and Web: vojtat@mst.edu, <http://web.mst.edu/~vojtat/>

Education and Academic Experience:

12/1999 Department of Physics, Chemnitz University of Technology (Germany)
Habilitation (postdoctoral degree required for a faculty position in Germany)
Thesis title: *Quantum and classical phase transitions in electronic systems*
11/1993–02/1995 Department of Physics, Chemnitz University of Technology (Germany)
PhD in Physics (December 1994, Advisor: Michael Schreiber)
Thesis title: *Disorder and interactions in systems with localized states*
03/1992–11/1993 Department of Chemistry, University of Mainz (Germany)
09/1986–03/1992 Department of Physics, University of Dresden (Germany)
Diploma (compares to MS) in Physics (June 1991, Advisor: Walther John)
Thesis title: *Coulomb gap in the one-dimensional Efros model*

Work Experience:

since 08/2006: Associate Professor of Physics
Department of Physics, Missouri University of Science and Technology
01/2002–07/2006: Assistant Professor of Physics
Department of Physics, University of Missouri–Rolla
3–12/2001: Heisenberg Fellow and Visiting Scholar
Wolfson College and Department of Theoretical Physics, University of Oxford, UK
05/1999–02/2001: Scientific Assistant (cf. Senior Research Associate)
Institute of Physics, Chemnitz University of Technology (Germany)
12/1996–04/1999: Research Associate
Institute of Physics, Chemnitz University of Technology (Germany)
03/1995–11/1996: Postdoctoral Researcher
Materials Science Institute and Department of Physics, University of Oregon
11/1993–02/1995: Research Assistant
Institute of Physics, Chemnitz University of Technology (Germany)

Visiting Appointments:

01–07/2009: Max-Planck Institute for Physics of Complex Systems, Dresden (Germany)
01–03/2005: Kavli Institute for Theoretical Physics, Santa Barbara
7–11/1997, 9/1998, 7–8/1999, 7–8/2000: Department of Physics, University of Oregon

Professional Societies:

American Physical Society
German Physical Society

Publications and Talks:

5 review articles
82 research papers in refereed journals + 4 submitted
17 printed proceedings and book chapters
1 popular science article
22 invited talks at national or international meetings
55 seminar and colloquium talks
104 conference contributions
(for complete list see separate sheets)

Grants and Awards:

- co-PI (15% effort), *Percolation networks at magnetic quantum phase transitions*, University of Missouri Research Board, 09/2007–08/2009, \$32,360
- PI (100% effort), *CAREER: Quantum phase transitions in electronic systems*, National Science Foundation, 06/2004–05/2010, \$400,000
- PI (100% effort), Cottrell Scholar Award, *Disordered electronic quantum phase transitions and an interactive approach to teaching computational physics*, Research Corporation, 05/2005–04/2010, \$100,000
- PI (100% effort), *Nonequilibrium quantum phase transitions*, University of Missouri Research Board, 01/2005–12/2005, \$14,508
- PI (100% effort), *Quantum phase transitions in disordered systems*, University of Missouri Research Board, 01/2002–12/2002, \$21,920
- PI (100% effort), *Dynamic behavior and glassiness of disordered correlated many-particle systems*, German Research Foundation, 01/1999–12/2001, \$63,000 (converted from DM)
- PI (100% effort), *Magnetic quantum phase transitions of itinerant electrons*, German Research Foundation, 01/2000–12/2001, \$41,000 (converted from DM)
- co-PI (50% effort), *Dynamic behavior and glassiness of disordered correlated many-particle systems*, German Research Foundation, 01/1996–12/1998, \$59,000 (converted from DM)
- Heisenberg Fellowship, German Research Foundation, 03–12/2001
- Postdoctoral Fellowship, German Research Foundation, 03/1996–11/1997
- Fellowship of the German Academic Exchange Service, 03–11/1995

Teaching

Missouri University of Science and Technology (01/2002–present):

- graduate classes in *Solid State Physics*, *Statistical Mechanics* and in *Quantum Statistical Mechanics*
- upper level undergraduate classes in *Computational Physics* and in *Chaos and Nonlinear Dynamics*
- recitations for *Engineering Physics II*

- Postdocs supervised: 1
- PhD students supervised: 3, MS students supervised: 1
- undergraduate students involved in research: 11

Chemnitz University of Technology (04/1998–02/2001):

- graduate classes in *Condensed Matter Theory* and in *Physics of Phase Transitions*
- laboratories in computational physics
- physics classes for gifted high school students
- PhD students supervised: 1, MS students supervised: 1

Professional Activities:

- Referee for several journals, including *Nature Physics*, *Physical Review Letters*, *Physical Review B*, *Physical Review E*, *European Physical Journal B*, *Journal of Physics A*, *Journal of Physics: Condensed Matter*, *Physics Letters A*, *Physica A*, *physica status solidi (b)*
- Reviewer for National Science Foundation, Petroleum Research Fund and German Research Foundation
- Organizer and co-organizer of several international conferences and workshops
- Editorial Board Member of *Journal of Statistical Mechanics* 2004 – 2007

University Service:

Missouri University of Science and Technology (01/2002–present):

- Chair, Research Computing Task Force (2008-present)
- Campus Information Technology and Computer Committee (2006-present)
- Reviewer for UM Research Board (2004-present)
- Academic Council (2004)
- Chair, Physics Space Committee (2007-present)
- Physics Long-Range Planning Committee (2006-present)
- Physics Graduate Admission Committee (2005-present)
- Physics Library Committee (2004-present)
- Physics Computer Committee (2002-present)
- Physics WWW Liaison (2002-present)
- Physics Faculty Search Committee (2004-2005 and 2007-2008)
- Physics Schearer Competition Chair (2007)
- Physics Fuller Competition Judge (2005)
- Physics Colloquium Chairman (2002-2004)

Chemnitz University of Technology (04/1998–02/2001):

- Program committee for undergraduate program in *Computational Science* (1999–2001)
- Faculty search committee (1999–2000)