

# Julia S. Meyer

## Current address:

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## Education:

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2001            **Ph.D.** in Theoretical Physics, Universität zu Köln (D).  
Thesis: *Mesoscopic phenomena driven by parallel magnetic fields*

1999            **Diplom** in Physics (comparable to M.Sc.), “with honors”,  
Universität zu Köln (D).  
Thesis: *Tunneling spectroscopy with twodimensional electron gases*

## Employment:

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2004 - to date    **Assitant professor at the Ohio State University**  
(Columbus, USA)  
[on leave Oct 2004 – Sep 2005 at Argonne National Laboratory]

2004 - 2005      Enrico Fermi scholar at Argonne National Laboratory (USA)

2002 - 2004      Research associate at the University of Minnesota (Minneapolis, USA)

2001 - 2002      Research associate at the Universität zu Köln (D)

1999 - 2001      Research assistant at the Ruhr-Universität Bochum (D)

1997 - 1999

and 1994 - 1995    Teaching assistant at the Universität zu Köln (D)

## Selected Awards and Fellowships:

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- 2008 Faculty Teaching Award (awarded by the graduate students)
- Enrico Fermi Scholar, Argonne National Laboratory, 2004-2005
- Feodor Lynen Research Fellowship, Alexander von Humboldt Foundation, 2002-2004
- Member of the German Scholarship Foundation, 1993-1998

### Selected Synergistic Activities:

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- 40+ invited talks at conferences (such as the 2007 APS March Meeting), workshops, and research institutions
- Referee for Phys. Rev. B, Phys. Rev. Lett., J. Phys: Cond. Matt., and Supercond. Sci. Technol. as well as reviewer of proposals to the NSF and DOE
- Organization of the ‘Condensed Matter Coffee Hour’ to enhance communication between students, postdocs, and faculty (OSU)

### Selected Publications:

- [1] J.S. Meyer and K.A. Matveev, *Wigner crystal physics in quantum wires*, preprint arXiv:0808.2076.
- [2] T. Micklitz, A. Altland, and J.S. Meyer, *Low-energy theory of disordered interacting quantum wires*, preprint arXiv:0805.3677.
- [3] C. Kollath, J.S. Meyer, and T. Giamarchi, *Dipolar bosons in a planar array of one-dimensional tubes*, Phys. Rev. Lett. **100**, 130403 (2008); arXiv:0711.0889.
- [4] A.D. Klironomos, J.S. Meyer, T. Hikihara, and K.A. Matveev, *Spin coupling in zigzag Wigner crystals*, Phys. Rev B **76**, 75302 (2007); arXiv:0704.0776.
- [5] J.S. Meyer, K.A. Matveev, and A.I. Larkin, *Transition from a one-dimensional to a quasi-one-dimensional state in interacting quantum wires*, Phys. Rev. Lett. **98**, 126404 (2007); cond-mat/0612101.
- [6] A. Altland, L.I. Glazman, A. Kamenev, and J.S. Meyer, *Inelastic electron transport in granular arrays*, Ann. Phys. **321**, 2566 (2006); cond-mat/0507695.
- [7] A.D. Klironomos, J.S. Meyer, and K.A. Matveev, *Spontaneous spin polarization in quantum wires*, Europhys. Lett. **74**, 679 (2006); cond-mat/0507387.
- [8] J.S. Meyer, A. Kamenev, and L.I. Glazman, *Electron transport in two-dimensional arrays*, Phys. Rev. B **70**, 45310 (2004); cond-mat/0401343.
- [9] J.S. Meyer, A. Altland, and B.L. Altshuler, *Quantum transport in parallel magnetic fields: A realization of the Berry-Robnik symmetry phenomenon*, Phys. Rev. Lett. **89**, 206601 (2002); cond-mat/0105623.