

Martin Veillette

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Current Position

- **Berea College** Berea, KY, USA
Assistant Professor, Fall 2007

Relevant Work Experience

- **University of Colorado** Boulder, CO, USA
Post-Doctoral Fellow, Fall 2005 to Fall 2007
Supervisor: Leo Radzihovsky
Work on Bose-Einstein condensates tuned to a Feshbach resonance.
- **University of Oxford** Oxford, UK
Post-Doctoral Fellow, Fall 2003 to Fall 2005
Supervisor: John Chalker
Studied dynamic and static properties of spin-1/2 frustrated magnets.

Education

- **University of California at Santa Barbara** Santa Barbara, CA, USA
Ph.D. in Physics, Spring 2003
Advisor: Leon Balents
Dissertation on aspects of quantum magnetism
- **McMaster University** Hamilton, ON, Canada
M.S. in Physics, 1998
Advisor: Catherine Kallin
Dissertation on stripes in High- T_c superconductors
- **Laval University** Quebec, PQ, Canada
B.S. in Physics, 1996

Publications

- Radio frequency spectroscopy of a strongly imbalanced Feshbach-resonant Fermi gas, Martin Veillette, Eun Gook Moon, Austen Lamacraft, Leo Radzihovsky, Subir Sachdev, D.E. Sheehy, Phys. Rev. A. 78 033614, (2008).
- Decoherence and interactions in an electronic Mach-Zehnder interferometer, John T. Chalker, Yuval Gefen, and Martin. Y. Veillette, Phys. Rev. B 76, 085320 (2007).
- Large N expansion in paired superfluid Fermi gases, Martin. Y Veillette, Daniel E. Sheehy, and Leo Radzihovsky, Phys. Rev. A 75, 043614 (2007).
- Superfluid transition in a rotating resonantly-interacting Fermi gas, Martin. Y Veillette, Daniel E. Sheehy, Leo Radzihovsky, and Victor Gurarie, Phys. Rev. Lett. 97, 250401 (2006).
- Commensurate and incommensurate ground states of Cs_2CuCl_4 in a magnetic field, Martin Y. Veillette and John T. Chalker, Phys. Rev. B 74, 052402 (2006).
- Spin dynamics of the quasi two dimensional spin-1/2 quantum magnet Cs_2CuCl_4 , Martin Y. Veillette, Andrew J. A. James, and Fabien H. L. Esler, Phys. Rev. B 72, 134429 (2005).

- Magnetic Structures of Frustrated Quantum Magnet Cs_2CuCl_4 in a Magnetic Field, Martin Y. Veillette, John T. Chalker, and Radu Coldea, Phys. Rev. B 71, 214426 (2005).
- Spin Precession and Oscillations in Mesoscopic Systems, Martin Y. Veillette, Cristina Bena and Leon Balents, Phys. Rev. B 69, 075319 (2004).
- Phase Coherence and Spin Dynamics, Martin Veillette in Proceedings of the NATO-ASI New Directions in Mesoscopic Physics, edited by R. Fazio, V.F. Gantmakher and Y. Imry (2003).
- Weak Ferromagnetism and Excitonic Condensates, M.Y. Veillette, L. Balents, Phys. Rev. B 65, 014428 (2002).
- Quasiparticles in the 111 state and its compressible ancestors, M. Y. Veillette, L. Balents, Matthew P.A. Fisher, Phys. Rev. B 66, 155401 (2002).
- Stripe Formation within $\text{SO}(5)$ Theory, M. Veillette, Ya.B. Bazaliy, A.J. Berlinsky, C. Kallin, Phys. Rev. Lett. 83, 2413 (1999).