

## R. Moessner: List of Publications

- B1 Topological Aspects of Condensed Matter Physics (C. Chamon, M. O. Goerbig, R. Moessner, and L. F. Cugliandolo), Oxford University Press (2014)
- B2 Topological Phases of Matter (R. Moessner and J. Moore), Cambridge University Press (2021)
001. Exact results for interacting electrons in high Landau levels (R. Moessner and J. T. Chalker), Phys. Rev. B **54**, 5006 (1996)
002. Two Systems with macroscopically degenerate groundstates: electrons in high Landau levels and geometrically frustrated antiferromagnets, D. Phil. thesis, Oxford University (1997)
003. Interacting electrons in high Landau levels (R. Moessner and J. T. Chalker), in "High Magnetic Fields in the Physics of Semiconductors II" ed. by G. Landwehr and W. Ossau, 135-138 (1997)
004. Relief and generation of frustration in pyrochlore magnets by single-ion anisotropy (R. Moessner), Phys. Rev. B **57**, R5587 (1998)
005. Properties of a Classical Spin Liquid: The Heisenberg Pyrochlore Antiferromagnet (R. Moessner and J. T. Chalker), Phys. Rev. Lett. **80**, 2929 (1998)
006. Low-temperature properties of classical, geometrically frustrated antiferromagnets (R. Moessner and J. T. Chalker), Phys. Rev. B **58**, 12049 (1998)
007. Magnetic Susceptibility of Diluted Pyrochlore and  $\text{SrCr}_{9-9x}\text{Ga}_{3+9x}\text{O}_{19}$  Antiferromagnets (R. Moessner and A. J. Berlinsky), Phys. Rev. Lett. **83**, 3293 (1999)
008. Two-Dimensional Periodic Frustrated Ising Models in a Transverse Field (R. Moessner, S. L. Sondhi and P. Chandra), Phys. Rev. Lett. **84**, 4457 (2000)
009. Slow holes in the triangular Ising antiferromagnet (R. Moessner and S. L. Sondhi), Phys. Rev. B **62**, 14122 (2000)
010. Magnets with strong geometric frustration (R. Moessner), Can. J. Phys. **79**, 1283 (2001)
011. Frustrated order by disorder: The pyrochlore anti-ferromagnet with bond disorder (L. Bellier-Castella, M. J. P. Gingras, P. C. W. Holdsworth and R. Moessner), Can. J. Phys. **79**, 1365 (2001)

012. Resonating Valence Bond Phase in the Triangular Lattice Quantum Dimer Model (R. Moessner and S. L. Sondhi), *Phys. Rev. Lett.* **86**, 1881 (2001)
013. Ising models of quantum frustration (R. Moessner and S. L. Sondhi), *Phys. Rev. B* **63**, 224401 (2001)
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015. Short-ranged resonating valence bond physics, quantum dimer models and Ising gauge theories (R. Moessner, S. L. Sondhi and E. Fradkin), *Phys. Rev. B* **65**, 024504 (2001)
016. Order by distortion and string modes in pyrochlore antiferromagnet (O. Tchernyshyov, R. Moessner and S. L. Sondhi), *Phys. Rev. Lett.* **88**, 067203 (2002)
017. Spin-Peierls phases in pyrochlore antiferromagnets (O. Tchernyshyov, R. Moessner and S. L. Sondhi), *Phys. Rev. B* **66**, 064403 (2002)
018. Classical dimers on the triangular lattice (P. Fendley, R. Moessner and S. L. Sondhi), *Phys. Rev. B* **66**, 214513 (2002)
019. Resonating Valence Bond Liquid Physics on the Triangular Lattice (R. Moessner and S. L. Sondhi), *Progr. Theor. Phys. Supp.* **145**, 37 (2002)
020. Pocket Monte Carlo algorithm for classical doped dimer models (W. Krauth and R. Moessner), *Phys. Rev. B* **67**, 064503 (2003)
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022. Theory of the [111] magnetization plateau in spin ice (R. Moessner and S. L. Sondhi), *Phys. Rev. B* **68**, 064411 (2003)
023. Interplay of quantum and thermal fluctuations in a frustrated magnet (S. V. Isakov and R. Moessner), *Phys. Rev. B* **68**, 104409 (2003)
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- 027. Valence-bond crystal in a  $\{111\}$  slice of the pyrochlore antiferromagnet (O. Tchernyshyov, H. Yao and R. Moessner), Phys. Rev. B **69**, 212402 (2004)
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- 038. Semiclassical degeneracies and ordering for highly frustrated magnets in a field (S. R. Hassan and R. Moessner), Phys. Rev. B **73**, 094443 (2006)

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- 040. Artificial Square Ice and Related Dipolar Nanoarrays (G. Möller and R. Moessner), *Phys. Rev. Lett.* **96**, 237202 (2006)
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- 047. Nonmonotonic Zero-Point Entropy in Diluted Spin Ice (X. Ke, R. S. Freitas, B. G. Ueland, G. C. Lau, M. L. Dahlberg, R. J. Cava, R. Moessner and P. Schiffer), *Phys. Rev. Lett.* **99**, 137203 (2007)
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- 049. Generic Mixed Columnar-Plaquette Phases in Rokhsar-Kivelson Models (A. Ralko, D. Poilblanc and R. Moessner), *Phys. Rev. Lett.* **100**, 037201 (2008)
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073. Irrational Charge from Topological Order (R. Moessner and S. L. Sondhi), *Phys. Rev. Lett.* **105**, 166401 (2010)
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