

Subir Sachdev Publications

BOOKS

- *Quantum Phase Transitions*, by Subir Sachdev, published by Cambridge University Press, Cambridge (1999); paperback in 2001; expanded second edition in 2011. For reviews see
 - Physics Today, vol **54**, number 2, page 56 (February 2001).
 - Contemporary Physics, vol **42**, number 2, page 141, March 2001.
 - Physikalische Blätter, vol **57**, number 10, page 68 (2001).
 - Journal of Statistical Physics, vol **103**, 1139 (2001).
- *Holographic Quantum Matter*, by Sean Hartnoll, Andrew Lucas, and Subir Sachdev, published by MIT Press (2018).
- *Quantum Phases of Matter*, by Subir Sachdev, published by Cambridge University Press, Cambridge (2023).
 - **Prose Award winner** in the category “Chemistry, Physics, Astronomy, and Cosmology” from “The Association of American Publishers” recognizing “significant contributions in scholarly publishing”.

PUBLICATIONS IN REFEREED JOURNALS

449. *Fermi surface change and d-wave superconductivity in the square lattice Kondo-Heisenberg model*, A. Nikolaenko, R. Rende, L. L. Viteritti, S. Sachdev, Ya-Hui Zhang, [arXiv:2606.23799](#).
448. *Influence of Harris disorder on quantum-critical superconductivity*, S. Kryhin, P. Lunts, A. A. Patel, S. Sachdev, P. A. Nosov, [arXiv:2606.23582](#).
447. *Large-flavor route to a stable $U(1)$ Dirac spin liquid on the maple-leaf lattice*, Yunchao Zhang, A. Feuerpfeil, S. Sachdev, R. Thomale, Y. Iqbal, [arXiv:2605.21587](#).
446. *From Ferrimagnetic Insulator to superconducting Luther-Emery Liquid: A DMRG Study of the Two-Leg Lieb Lattice*, A. Nikolaenko, S. Sachdev, [arXiv:2604.05027](#).
445. *Superconductivity and fractionalized magnetic excitations in $CeCoIn_5$* , Pyeongjae Park, Shang-Shun Zhang, P. M. Bonetti, A. A. Podlesnyak, D. M. Pajerowski, M. B. Stone, C. Petrovic, C. Stock, S. Sachdev, C. D. Batista, A. D. Christianson, [arXiv:2604.02481](#)
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443. *Landau and fractionalized theories of periodically driven intertwined orders*, O. K. Diessel, S. Sachdev, P. M. Bonetti, [arXiv:2603.24592](#).
442. *Unified gauge-theory description of quantum spin liquids on square-based frustrated lattices*, A. Maity, A. Feuerpfeil, R. Thomale, S. Sachdev, Y. Iqbal, [arXiv:2603.15745](#).
441. *Crossover to Sachdev-Ye-Kitaev criticality in an infinite-range quantum Heisenberg spin glass*, H. Hosseinabadi, S. Sachdev, J. Marino, [arXiv:2603.11263](#).
440. *Transformer Neural-Network Quantum States for lattice models of spins and fermions: Application to the Ancilla Layer Model*, R. Rende, A. Nikolaenko, L.L. Viteritti, S. Sachdev, Ya-Hui Zhang, [arXiv:2603.02316](#).
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438. *Approaching the Thermodynamic Limit with Neural-Network Quantum States*, L.L. Viteritti, R. Rende, S. Sachdev, G. Carleo, [arXiv:2602.02665](#).
437. *Unifying Dirac Spin Liquids on Square and Shastry–Sutherland Lattices via Fermionic Deconfined Criticality*, A. Feuerpfeil, L. Shackleton, A. Maity, R. Thomale, S. Sachdev, Y. Iqbal, [arXiv:2601.19980](#).
436. *Lectures on insulating and conducting quantum spin liquids*, S. Sachdev, [arXiv:2512.23962](#).
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