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Postdoc.	2012-2015	California Institute of Technology
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Research Focus



研究领域

主要运用矩阵乘积态和张量乘积态及机器学习等研究：

- 1、多体奇异量子态
- 2、多体奇异量子相变
- 3、量子自旋液体

1. Exotic quantum manybody phases
2. Exotic quantum phase transition
3. Quantum spin liquid

Representative Publications



代表出版物

1. L. Wang and A. W. Sandvik, "Critical level crossings and gapless spin liquid in the square lattice spin-1=2 J1- J2 Heisenberg antiferromagnet", Phys. Rev. Lett. 121, 107202 (2018)
2. L. Wang, Z.-C. Gu, X.-G. Wen, and F. Verstraete, "A tensor product state approach to spin-1/2 square J1- J2 antiferromagnetic Heisenberg model: evidence for deconned quantum criticality", Phys. Rev. B 94, 075143, (2016)
3. L. Wang, A. Essin, M. Hermele and Olexei Motrunich, "Numerical detection of symmetry enriched topological phases with space group symmetry", Phys. Rev. B 91, 121103(R) (2015)
4. L. Wang, D. Poilblanc, Z.-C. Gu, X.-G. Wen, and F. Verstraete, "Constructing gapless spin liquid state for the spin-1/2 J1-J2 Heisenberg model on a square lattice", Phys. Rev. Lett. 111, 037202 (2013)
5. L. Wang, I. Pizorn, and F. Verstraete, "Monte Carlo simulation with Tensor Network States", Phys. Rev. B 83, 134421 (2011).
6. L. Wang, A. W. Sandvik, "Low-Energy Dynamics of the Two-Dimensional S=1/2 Heisenberg Antiferromagnet on Percolating Clusters", Phys. Rev. Lett. 97, 117204 (2006)