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Research Focus

研究领域

1. Strongly correlated electron systems
2. Quantum criticality
3. Non-Fermi liquid ground state
4. Quantum matter far from equilibrium

Representative Publications

代表出版物

1. P. Ribeiro, F. Zamani, & S. Kirchner, Steady-state dynamics and effective temperatures for a model of quantum criticality in an open system, *Phys. Rev. Lett.* 115, 220602 (2015)
2. A. Antipov, E. Gull, & S. Kirchner, Critical Exponents of Strongly Correlated Fermion Systems from Diagrammatic Multi-Scale Methods, *Phys. Rev. Lett.* 112, 226401 (2014)
3. G. Li, A. Antipov, A. Rubtsov, S. Kirchner & W. Hanke Competing phases of the Hubbard model on a triangular lattice: Insights from the entropy, *Phys. Rev. B* 89, 161118(R) (2014).
4. E. Munoz, C. Bolech, & S. Kirchner, Universal out-of-equilibrium transport in Kondo-correlated quantum dots: renormalized dual fermions on the Keldysh contour, *Phys. Rev. Lett.* 110, 016601 (2013).
5. H. Pfau, S. Hartmann, U. Stockert, P. Sun, S. Lausberg, M. Brando, S. Friedemann, C. Krellner, C. Geibel, S. Wirth, S. Kirchner, E. Abrahams, Q. Si, & F. Steglich, Thermal and Electrical Transport across a Quantum Critical Point, *Nature* 484, 493 (2012).