

LIST OF PUBLICATIONS

Prof. Dr. Jörg Schmalian

Karlsruhe Institute of Technology
Institute for Theory of Condensed Matter and
Institute for Quantum Materials and Technologies
Email: joerg.schmalian@kit.edu | Telephone: +49 721 608 43590 | [webpage](#)

Total number of publications: 201 publications in peer-reviewed journals, including 47 in Physical Review Letters, 91 in Physical Review, 17 in Nature Journals, 3 in PNAS. 5 popular science articles, and 4 book chapters.

Citations: h-index = 51 (Web of Science), 60 (Google scholar), total citations 10070 (Web of Science), 14130 (Google scholar)

Invited talks: 260 invited talks at conferences and colloquia at universities (not counting seminar talks).

LIST OF POPULAR SCIENCE ARTICLES

1. *Elastisch dank einflussreicher Elektronen: In einem kritischen, stark korrelierten System sind Kraft und Auslenkung nirgends proportional*, J. Schmalian, Physik Journal **16**, 24 (2017) [in German].
2. *Superconductivity: a Superlatively Difficult Puzzle*, The SPS-Observer; The Magazine of the Society of Physics Students of the American Institute of Physics, Spring Issue (2017).
3. *Elektronen im Fluss: In Graphen können Elektronen auch hydrodynamisches Verhalten zeigen*, A. D. Mirlin und J. Schmalian, Physik Journal **15**, (2016) [in German].
4. *Supraleitung: Unkonventionell und Komplex*, J. Schmalian, Physik Journal **10**, 37 (2011) [in German].
5. *Failed Theories of Superconductivity*, J. Schmalian, chapter IV in: BCS: 50 Years, Ed. D. Feldman and L. N Cooper, World Scientific (2010). **Featured by Mark Buchanan in: The winner takes it all? Nature Physics 6, 715 (2010)**

LIST OF BOOK CHAPTERS

1. *Interface Superconductivity*, S. Gariglio, M. Scheurer, J. Schmalian, A.M.R.V.L. Monteiro, S. Goswami, A. Caviglia, Chapter 7 in Small Superconductors, ed. A.V. Narlikar, Clarendon Press- Oxford (2016).
2. *Nematic Order and Fluctuations in Iron-Based Superconductors*, U. Karahasanović, R. M. Fernandes and J. Schmalian, Lectures on the physics of strongly correlated systems XIX: Nineteenth training course in the physics of strongly correlated systems, ed. R. Citro and F. Manchini, AIP-Conference Proceedings (2016).
3. *A spin fluctuation model for d-wave superconductivity*, A. V. Chubukov, D. Pines, J. Schmalian, Novel Superconductors Vol. II, ed. K. H. Bennemann, J. B. Ketterson, Springer (2008).
4. *Materials driven Science: from high- T_c to complex adaptive matter*, J. Schmalian and D. Pines, Proceedings of the NATO Advanced Study Institute conference on Soft Condensed Matter: Configurations, Dynamics and Functionality, April 6-16, 1999, Geilo, Norway (1999).

LIST OF PEER-REVIEWED PUBLICATIONS

1. *Strange semimetal dynamics in SrIrO_3* , K. Sen, D. Fuchs, R. Heid, K. Kleindienst, K. Wolff, J. Schmalian, and M. Le Tacon, Nature Communications **11**, 4270 (2020).
2. *Z_3 -vestigial nematic order due to superconducting fluctuations in the doped topological insulators $\text{Nb}_x\text{Bi}_2\text{Se}_3$ and $\text{Cu}_x\text{Bi}_2\text{Se}_3$* , C.-w. Cho, J. Shen, J. Lyu, O. Atanov, Q. Chen, S. H. Lee, Y. S. Hor, D. J. Gawryluk, E. Pomjakushina, M. Bartkowiak, M. Hecker, J. Schmalian, and R. Lortz, Nature Communications **11**, 3056 (2020).

3. *Nonlocal hydrodynamic transport and collective excitations in Dirac fluids*, E. I. Kiselev and J. Schmalian, *Phys. Rev. B* **102**, 245434 (2020).
4. *Quantum critical scaling and holographic bound for transport coefficients near Lifshitz points*, G. A. Inkof, J. M.C. Küppers, J. M. Link, B. Goutéraux, and J. Schmalian, *Journal of High Energy Physics* **11**, 088 (2020).
5. *Band engineering of Dirac cones in iron chalcogenides*, L. Lauke, R. Heid, M. Merz, T. Wolf, A.-A. Haghighirad, and J. Schmalian, *Physical Review B* **102**, 054209 (2020).
6. *Transport properties of strongly coupled electron–phonon liquids*, A. Levchenko and J. Schmalian, *Annals of Physics* **419**, 168218 (2020).
7. *Eliashberg equations for an electron–phonon version of the Sachdev–Ye–Kitaev model: Pair breaking in non-Fermi liquid superconductors*, D. Hauck, M. J. Klug, I. Esterlis, and J. Schmalian, *Annals of Physics* **417**, 168120 (2020).
8. *Pairing glue in cuprate superconductors from the self-energy revealed via machine learning*, A. V. Chubukov and J. Schmalian, *Physical Review B Rapid Communications* **101**, 180510(R) (2020).
9. *Lévy Flights and Hydrodynamic Superdiffusion on the Dirac Cone of Graphene*, E. I. Kiselev and J. Schmalian, *Physical Review Letters* **123**, 195302 (2019).
10. *Cooper pairing of incoherent electrons: An electron-phonon version of the Sachdev–Ye–Kitaev model*, I. Esterlis and J. Schmalian, *Physical Review B* **100**, 115132 (2019). **Editors' suggestion**
11. *Strain tuning and anisotropic spin correlations in iron-based systems*, R. Willa, M. Fritz, and J. Schmalian, *Physical Review B* **100**, 085106 (2019).
12. *Unconventional pairing in single FeSe layers*, J. Jandke, F. Yang, P. Hlobil, T. Engelhardt, D. Rau, K. Zakeri, C. Gao, J. Schmalian, and W. Wulfhekkel, *Physical Review B* **100**, 020503(R) (2019). **Editors' suggestion**
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22. *Out-of-bounds hydrodynamics in anisotropic Dirac fluids*, J. M. Link, B. N. Narozhny, E. I. Kiselev, and J. Schmalian, *Physical Review Letters* **120**, 196801 (2018).
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26. *Short-distance breakdown of the Higgs mechanism and the robustness of the BCS theory for charged superconductors*, S. Fischer, M. Hecker, M. Hoyer, and J. Schmalian, *Physical Review B* **97**, 054510 (2018).
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66. *Sign-reversal of the in-plane resistivity anisotropy in hole-doped iron pnictides*, E. C. Blomberg, M. A. Tanatar, R. M. Fernandes, I. I. Mazin, B. Shen, Hai-Hu Wen, M. D. Johannes, J. Schmalian, and R. Prozorov, *Nature Communications* **4**, 1914 (2013).
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