

Publications in refereed scientific journals:

- (639) L. Schneider, Ph. Beck, J. Neuhaus-Steinmetz, Th. Posske, J. Wiebe and R. Wiesendanger, Nature Nanotechnol., accepted:
"Length-dependent energy oscillations of precursors of Majorana modes detected on both ends of Shiba chains".
- (638) Ph. Beck, L. Schneider, L. Bachmann, J. Wiebe, and R. Wiesendanger, Phys. Rev. Mater., accepted:
"Structural and superconducting properties of ultrathin Ir films on Nb(110)".
- (637) J. Spethmann, E. Vedmedenko, R. Wiesendanger, A. Kubetzka, and K. von Bergmann, Commun. Phys. 5, 19 (2022):
"Zero-field skyrmionic states and in-field edge-skyrmions induced by boundary tuning".
- (636) M. Przychodnia, M. Hermanowicz, E. Sierda, M. Elsebach, T. Grzela, R. Wiesendanger, and M. Bazarnek, Phys. Rev. B 105, 035416 (2022):
"Controlled growth of Gd-Pt surface alloys on Pt(111)".
- (635) H. Kim, Y. Nagai, L. Rozsa, D. Schreyer, and R. Wiesendanger, Appl. Phys. Rev. 8, 031417 (2021):
"Anisotropic non-split zero-energy vortex bound states in a conventional superconductor".
- (634) J. Fikacek, J. Warmuth, F. Arnold, C. Piamonteze, Z. Mao, V. Holy, Ph. Hofmann, M. Bremholm, J. Wiebe, R. Wiesendanger, and J. Honolka, J. Magn. & Magn. Mater. 540, 168426 (2021):
"Disorder-induced time effect in the antiferromagnetic domain state of Fe_{1+y}Te ".
- (633) D. Wang, R. Zhong, G. Gu, and R. Wiesendanger, Phys. Rev. Research 3, L032055 (2021):
"Surface orbital order and chemical potential inhomogeneity of the iron-based superconductor $\text{FeTe}_{0.55}\text{Se}_{0.45}$ investigated with special STM tips".
- (632) A. Kamlapure, L. Cornils, R. Zitko, M. Valentyuk, R. Mozara, S. Pradhan, J. Fransson, A.I. Lichtenstein, J. Wiebe, and R. Wiesendanger, Nano Lett. 21, 6748 (2021):
"Correlation of Yu-Shiba-Rusinov states and Kondo resonances in artificial spin arrays on an s-wave superconductor".

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- (631) L. Schneider, Ph. Beck, Th. Posske, D. Crawford, E. Mascot, S. Rachel, R. Wiesendanger, and J. Wiebe, *Nature Physics* 17, 943 (2021):
"Evidence of topological Shiba bands in artificial spin chains on superconductors".
- (630) M. Ashino, K. Nishioka, K. Hayashi, and R. Wiesendanger, *Phys. Rev. B* 104, 085407 (2021):
"Precise measurement of the configurational energy of bent graphene membranes via three-dimensional force field spectroscopy".
- (629) J. Spethmann, M. Grünebohm, R. Wiesendanger, K. von Bergmann, and A. Kubetzka, *Nature Commun.* 12, 3488 (2021):
"Discovery and characterization of a new type of domain wall in a row-wise antiferromagnet".
- (628) J. Honolka, S. Krotzky, M. Herzog, T. Herden, V. Sessi, H. Ebert, J. Minar, K. von Bergmann, R. Wiesendanger, and O. Sipr, *Phys. Rev. B* 103, 174419 (2021):
"Spin-spiral state of a Mn monolayer on W(110) studied by soft x-ray absorption spectroscopy at variable temperature".
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- (626) G. Chen, M.C. Robertson, M. Hoffmann, C. Ophus, A.L.F. Cauduro, R. Lo Conte, H. Ding, R. Wiesendanger, S. Blügel, A. K. Schmid, and K. Liu, *Phys. Rev. X* 11, 021015 (2021):
"Observation of hydrogen-induced Dzyaloshinskii-Moriya interaction and reversible switching of magnetic chirality".
- (625) M. Ashino, K. Nishioka, K. Hayashi, and R. Wiesendanger, *Phys. Rev. Lett.* 126, 146101 (2021):
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- (623) D. Wang, J. Wiebe, R. Zhong, G. Gu, and R. Wiesendanger, *Phys. Rev. Lett.* 126, 076802 (2021):
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