

Scanning Probe Methods Group, Prof. Dr. Roland Wiesendanger

Publications: Original Articles

Subgroup: STM/STS on Semiconductors

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Search for large topological gaps in atomic spin chains on proximitized superconducting heavy-metal layers

*Ph. Beck, B. Nyári, L. Schneider, L. Rózsa, A. Lászlóffy, K. Palotás, L. Szunyogh, B. Ujfalussy, J. Wiebe, and R. Wiesendanger, Communications Physics **6** 83 (2023)*

Systematic study of Mn atoms, artificial dimers, and chains on superconducting Ta(110)

*P. Beck, L. Schneider, R. Wiesendanger, and J. Wiebe, Phys. Rev. B **107** 024426 (2023)*

Precursors of Majorana modes and their length-dependent energy oscillations probed at both ends of atomic Shiba chains

*Lucas Schneider, Philip Beck, Jannis Neuhaus-Steinmetz, Levente Rózsa, Thore Posske, Jens Wiebe, and Roland Wiesendanger, Nature Nanotechnology **17** 384 (2022)*

Structural and superconducting properties of ultrathin Ir films on Nb(110)

*Ph. Beck, L. Schneider, L. Bachmann, J. Wiebe, and R. Wiesendanger, Phys. Rev. Materials **6** 024801 (2022)*

Correlation of Yu-Shiba-Rusinov States and Kondo Resonances in Artificial Spin Arrays on an s-Wave Superconductor

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