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ABOUT THE COVER:
Conductive atomic force microscope lithography is used to pattern reconfigurable superconducting weak links (WLs) at the LAAG₂/KTaO₃ (LAQ/KTO) interface. By deliberately engineering the WL geometry at the nanoscale, apparent diode effects (ADEs) are realized in these devices in the presence of modest out-of-plane magnetic fields. The ADE polarity can be reversed by simply changing the WL position. Simulations reveal that the observed ADE originates from asymmetric vortex motion in the inversion-symmetry-breaking device geometry. This demonstration of ADE in the LAQ/KTO system establishes a versatile platform for investigating and engineering vortex dynamics, forming the basis for investigating and constructing Download Cover

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Heteroatomic Andreev Molecule in a Superconducting Island–Double Quantum Dot Hybrid

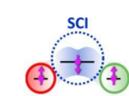
Olivér Kirtóssy, Mihály Bodócs, Csábin Péter Moca, Zoltán Scherzli, Élia Nikodem, Thomas Kanne, Jesper Nygård, Gergely Zaránd, Péter Mátka*, and Szabolcs Csontos*

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Colorless and Transparent Semialicyclic Polyimide Aerogels with Mechanical Durability for Thermal Insulation

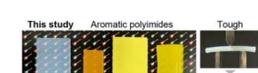
Masaki Negoro, Ryota Ueda, Tachi Naiguchi, Chang Liu, Yuda Yokoyama, Ai Kirahashi, Kureha Ohmori, Yoshitsugu Itoh, Satoshi Hoshie, and Kazuyoshi Yamamoto*

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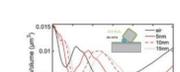
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Molecularly Encoded Regulation of DNA Self-Assembly Crystallization in a Closed Homogeneous Solution System

Pan Fu, Ling Xin, Sihua Qian, Yuhui Wang, Li Wang*, Jiaqing Zheng*, and Kazuo Wang*

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