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Quasiparticle tunnel electroresistance in superconducting junctions

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The term tunnel electroresistance (TER) denotes a fast, non-volatile, reversible resistance switching triggered by voltage pulses in ferroelectric tunnel junctions. It is explained by subtle mechanisms connected to the voltage-induced reversal of the ferroelectric polarization. Here we demonstrate that effects functionally indistinguishable from the TER can be produced in a simpler junction scheme—a direct contact between a metal and an oxide—through a different mechanism: a reversible redox reaction that modifies the oxide's ground-state. This is shown in junctions based on a cuprate superconductor, whose ground-state is sensitive to the oxygen stoichiometry and can be tracked in operando via changes in the conductance spectra. Furthermore, we find that electrochemistry is the governing mechanism even if a ferroelectric is placed between the metal and the oxide. Finally, we extend the concept of electroresistance to the tunnelling of superconducting quasiparticles, for which the switching effects are much stronger than for normal electrons. Besides providing crucial understanding, our results provide a basis for non-volatile Josephson memory devices.

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Superconducting Tunnel Junctions For Xray Detection

Rosina Ehmman



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X-ray Detection By Superconducting Tunnel Junctions - Proceedings Of The International Workshop R

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Handbook of Superconductivity David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05 This is the last of three volumes of the extensively revised and updated second edition of the Handbook of Superconductivity The past twenty years have seen rapid progress in superconducting materials which exhibit one of the most remarkable physical states of matter ever to be discovered Superconductivity brings quantum mechanics to the scale of the everyday world Viable applications of superconductors rely fundamentally on an understanding of these intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs While the first volume covers fundamentals and various classes of materials the second addresses processing of these into various shapes and configurations needed for applications and ends with chapters on refrigeration methods necessary to attain the superconducting state and the desired performance This third volume starts with a wide range of methods permitting one to characterize both the materials and various end products of processing Subsequently diverse classes of both large scale and electronic applications are described Volume 3 ends with a glossary relevant to all three volumes Key Features Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands on familiarity with the characterization methods and offers descriptions of representative examples of practical applications A comprehensive reference the handbook is suitable for both graduate students and practitioners in experimental physics materials science and multiple engineering disciplines including electronic and electrical chemical mechanical metallurgy and others **EUV,**

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