

ARTICLE

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# Quasiparticle tunnel electroresistance in superconducting junctions

V. Rouco<sup>1,5</sup>, R. El Hage<sup>1</sup>, A. Sander<sup>1</sup>, J. Grandal<sup>2</sup>, K. Séurre<sup>1</sup>, X. Palermo<sup>1</sup>, J. Briatico<sup>1</sup>, S. Collin<sup>3</sup>, J. Trastoy<sup>1</sup>, K. Bouzehouane<sup>1</sup>, A.I. Buzdin<sup>3</sup>, G. Singh<sup>4</sup>, N. Bergeal<sup>4</sup>, C. Feuillet-Palma<sup>4</sup>, J. Lésueur<sup>4</sup>, C. Leon<sup>2</sup>, M. Varela<sup>2</sup>, J. Santamaria<sup>1,2</sup> & Javier E. Villegas<sup>1,5</sup>

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.

<sup>1</sup>Unité Mixte de Physique, CNRS, Thales, Université Paris-Saclay, 91767 Palaiseau, France. <sup>2</sup>Grupo de Física de Materiales Compuestos, Dpto. Física de Materiales, Universidad Complutense de Madrid, 28040 Madrid, Spain. <sup>3</sup>Université de Bordeaux, LOMA, UMR CNRS 5798, F-33405 Talence, France. <sup>4</sup>Laboratoire de Physique et d'Etude des Matériaux, ESPCI Paris, Université PSL, CNRS, 75005 Paris, France. <sup>5</sup>Present address: Grupo de Física de Materiales Compuestos, Dpto. Física de Materiales, Universidad Complutense de Madrid, 28040 Madrid, Spain. \*email: javier.villegas@cnm-thales.fr

# Superconducting Tunnel Junctions For Xray Detection

**Rosina Ehmann**

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Johannes Gerardus Gijsbertsen,1995 Handbook of Superconducting Materials David A. Cardwell,David S. Ginley,2003

### **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

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energy resolution in this band We have measured the performance of these STJ detectors as a function of count rate and demonstrated a resolution of 13 eV FWHM at 271 eV with an output count rate of 20 600 cts s Using X rays from SSRL to study compos ite materials we have demonstrated that we can resolve the L lines of transition metals from the nearby K lines of light elements We describe the first use of a low temperature X ray detector to measure X ray fluorescencc from the dilute metal component in a protein   **Nuclear Science Abstracts** ,1973 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by DOE s predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

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