

ARTICLE

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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

M Walker



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patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available *Superconducting Tunnel Junction X-ray Detectors for High Resolution Spectroscopy*, 1998 We are developing low temperature detectors for optical ultraviolet X ray and gamma ray spectroscopy and for biomolecular mass spectrometry We present here a some of our recent work in developing these detectors and some of the first results in applying these detectors to X ray fluorescence analysis We have measured thin film Nb Al Al₂O₃ Al Nb superconducting tunnel junction STJ X ray detectors in the 0.2 to 1 keV band with a range of different junction sizes and aluminum film thicknesses In one case we have achieved the statistical limit to the 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 composite 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 fluorescence from the dilute metal component in a protein **X-ray and Ultraviolet Spectroscopy and Polarimetry** Silvano Fineschi, 1994 *Proceedings of an ESA Symposium on Photon Detectors for Space Instrumentation* T. D. Guyenne, J. J. Hunt, 1992 *JJAP*, 2003 *INIS Atomindex*, 1995 Selected Papers on Photon-counting Detectors Alan Smith, 1998 SPIE Milestones are collections of seminal papers from the world literature covering important discoveries and developments in optics and photonics *International Aerospace Abstracts*, 1999 *Chemical Abstracts*, 2002 **Development of High Resolution X-ray Spectrometers for the Investigation of Bioinorganic Chemistry in Metalloproteins** Owen Byron Drury, 2007 *Low Temperature Physics and Chemistry*, 1996 Superconductivity and Superconducting Materials Technologies P. Vincenzini, 1995 Summaries of Reports of the Electrotechnical Laboratory Denki Shikenjo (Japan), 1997

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