Point contact spectroscopy on LSCO material

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**Abstract**. Superconducting state is characterized by a well defined order parameter and the superconducting energy gap which forms at superconducting transition temperature. However, The fundamental mechanism responsible for superconductivity in cooperates is the matter of debate. To study superconductivity in cooperates, point contact Andreev reflection spectroscopy has been used to analyse its superconducting order-parameter. The aim of this paper is to review the recent PCS outcomes achieved on the high TC oxides LSCO, in superconducting conditions. For Andreev kind contracts, the shape of the VI features at the lowest voltage is constant with an s wave symmetry of the state of the superconductor and not with the symmetry of a d waver. The improved conduction and voltage are lower than the gap mentioned a Fermi velocity in the superconducting electrode which is within an element of two of that of the ordinary Au point. These outcomes are interpreted as reflecting a huge correlation impact.

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