

Net Voltage and Phenomenon of Resonance Induced by Chaotic Signal for a Superconducting Junctions Device

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Abstract: The effects of a quenched chaotic signal on the over-damped motion of the electron pairs of a superconducting junctions device are studied. It is shown that the chaotic signal can induce the net voltage and the phenomenon of resonance.

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Key words: superconducting junction, electron pairs, noise

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