

Abstracts

A 77 K Computer Controlled mm Wave Spectral Josephson Detector Using Microstrip Technique, Preliminary Results

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Superconducting granular bridges of Y-Ba-Cu-O show the ac Josephson effect. A spectral detector is built up with a granular bridge as the sensor, which is coupled to a microstrip line. The device is operated in the millimeter wave range (Ka-band) in liquid nitrogen at a temperature of 77 Kelvin.

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