Abstracts

A Technique for Noise Measurements of SIS Receivers (Short Papers)

Q. Ke and M.J. Feldman. "A Technique for Noise Measurements of SIS Receivers (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.4 (Apr. 1994, Part II [T-MTT]): 752-755.

We present a simple new technique to determine the noise temperature of the rf input section of a superconducting quasiparticle heterodyne receiver. This quantity is difficult to measure by existing methods. The new technique rises standard hot/cold-load measurements, and the precision should be as good as the hot/cold-load determination of receiver noise temperature. For most receivers, correction terms will be much smaller than the quantum temperature hw/k.

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