

thinfilms and NEW IDEAS for SRF

Contribution ID: 9

Type: **not specified**

HTS superconducting films for microwave applications

We review r.f. measurements of the surface impedance $Z_s=R_s+iX_s$ of YBCO films deposited on sapphire or MgO. The measurements are performed by a microstrip dielectric resonator and cavities techniques using a meander line geometry. The power dependence of Z_s is studied at different temperatures and frequencies in the range 1-18 GHz. The effects of a d.c. magnetic field applied with different orientations is also studied. The data are analyzed in the context of different models. The data will be discussed for possible interest for different application including collective coupling with spin ensembles and MASER

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Track Classification: Superconducting films beyond SRF