

20836

March 3-7 - Austin Tx.

Please proofread this information

You have entered the following abstract information for the 2003 March Meeting.
If this information is correct, please press the "Submit" button at the bottom of the page.

Power Dissipation in Polycrystalline HTS Materials

George, O. Zimmerman (Physics Department, Boston University)

Power dissipation of various polycrystalline HTS materials including YBCO, BSSCO bulk and rods, and Ag clad tapes, has been measured in the intermediate phase region induced by the current and the application of a magnetic field. J_c is also measured. The measurement, which includes the four point technique and power dissipation measurements based on LN evaporation rate, is performed on the bulk materials and on the interface regions. Magnetic susceptibility will be measured simultaneously. The interface regions, which consist of junctions between HTS material and metal, such as copper, are made by various methods, and a comparison of the power dissipation in junctions made by various techniques will be made. An attempt will be made to characterise the materials and junctions on a microscopic scale. However, since the material is of commercial quality, its crystalline and chemical composition may vary within a sample. This is an attempt to characterise commercially available bulk materials for prospective use in power applications.

Presentation type: Oral

Sorting category: 5.9.1 Current Transport in Superconductors (DMP)

Submitter: George O. Zimmerman

Submitting Member ID: Member ID: ZI439339

submitting member email address: goz@bu.edu

Submitting Member affiliation: Physics Department, Boston University, Boston MA 02215

CategoryType: E

Email address[1]: goz@bu.edu

If the information is correct, press the "Submit" button below. If the information is *not* correct, please use the **Back** button on your browser to return to the input form and correct the problem.

Do **NOT** press the submit button more than once or multiple copies of the abstract will be entered in the system.

When you are satisfied with your submission, please print this page for future reference.

Thank you.

Submit

If you want to view the abstract formatted by LaTeX, press the "Preview" button below.