

**Giovedì' 24 settembre alle ore 17.00 in sala Castagnoli
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"Y2O3 Layered Melt Process YBCO and Characterization"

Abstract: In this study, melt-processed YBCO samples were fabricated with the MPMG procedure at different temperature. The compacted powders were located on a crucible with a buffer layer of Y_2O_3 . Their microstructures were defined by XRD analysis and polarized light optical microscopy. The microstructure investigations indicated that the 123 grains were very big and fine and dispersed 211 particles remained in the samples. Resistivities of the samples were measured by a standard continuous dc four-probe method. Magnetization measurements were made and flux jumps were observed at a relatively higher temperature for Y1060. The critical current density, J_c , values of the samples, measured by VSM in 5 T magnetic field, exceeded $0.6 \times 10^3 \text{ A} \cdot \text{cm}^{-2}$ at 77 K and 4 T.