

Snap-Shots of YBCO Characterization in Summer 2007



Fig. 1. Students (Monica, Digena, Nana and Avani (from left to right)) taking pictures of floating magnet during first demonstration of Meissner effect demonstration and tutorial. See pictorial overview for more details on summer 2007 experiments.



Fig. 2. Weighing the components (Y_2O_3 , CuO and $BaCO_3$), needed to get the correct stoichiometric ratio for YBCO ($YBa_2Cu_3O_{6+x}$).



Fig. 3. Monica grinding powder for first calcinations sample



Fig. 4. Preparing a rectangular (polished) sample for Resistivity measurements.
Rectangular sample as placed on circuit board.

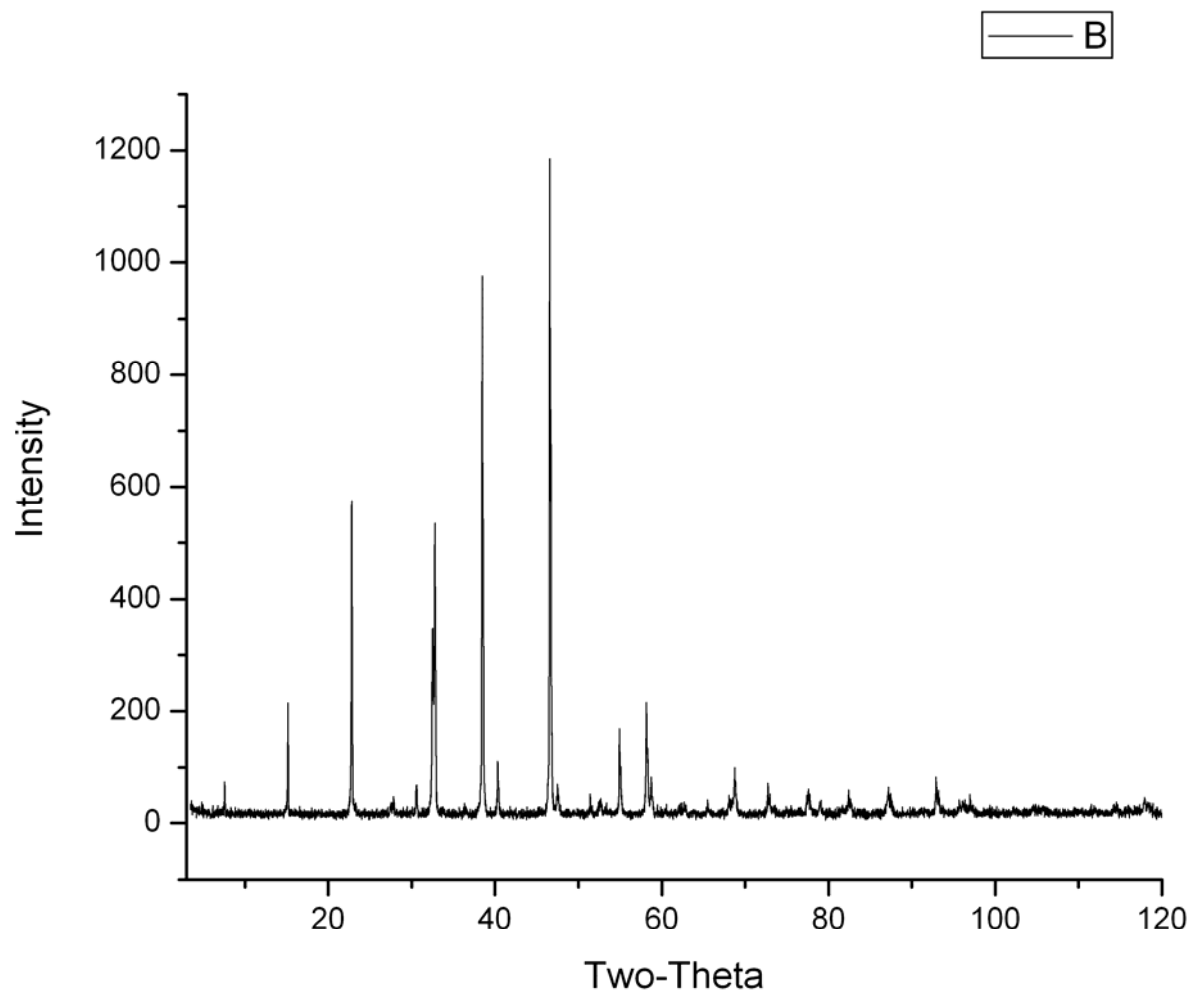


Fig. 5. X-ray Diffraction data taken on powder sample.

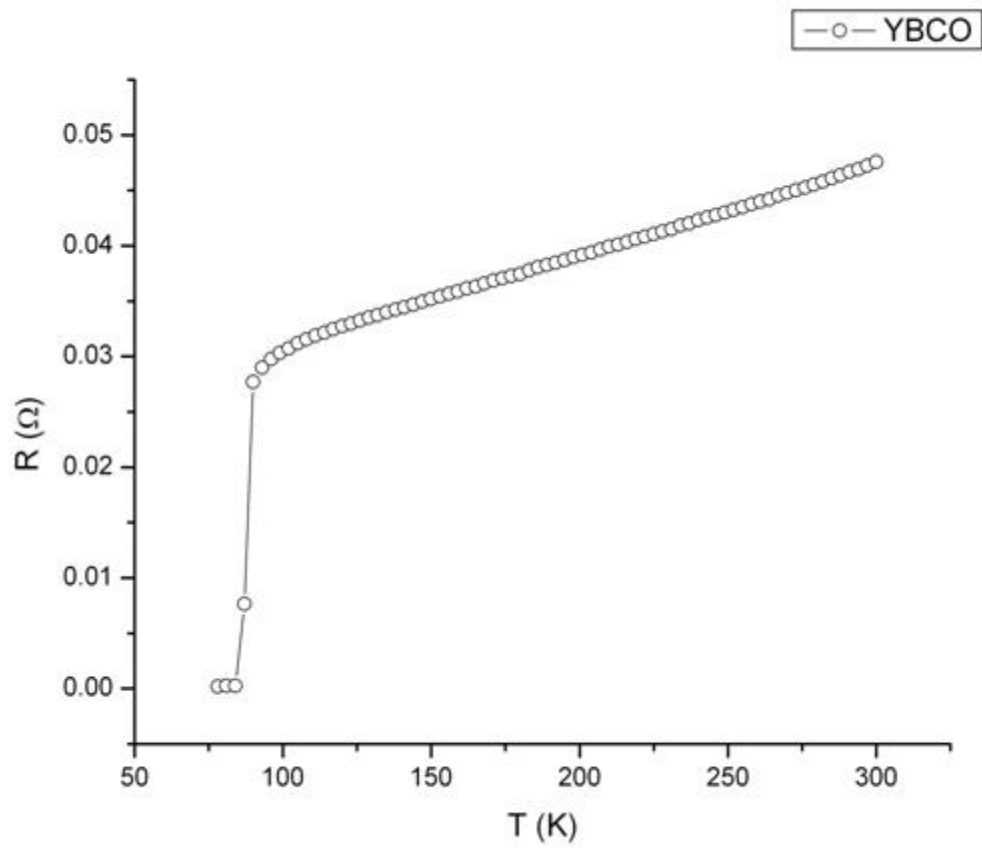


Fig. 6. Resistance data taken on pellet sample.

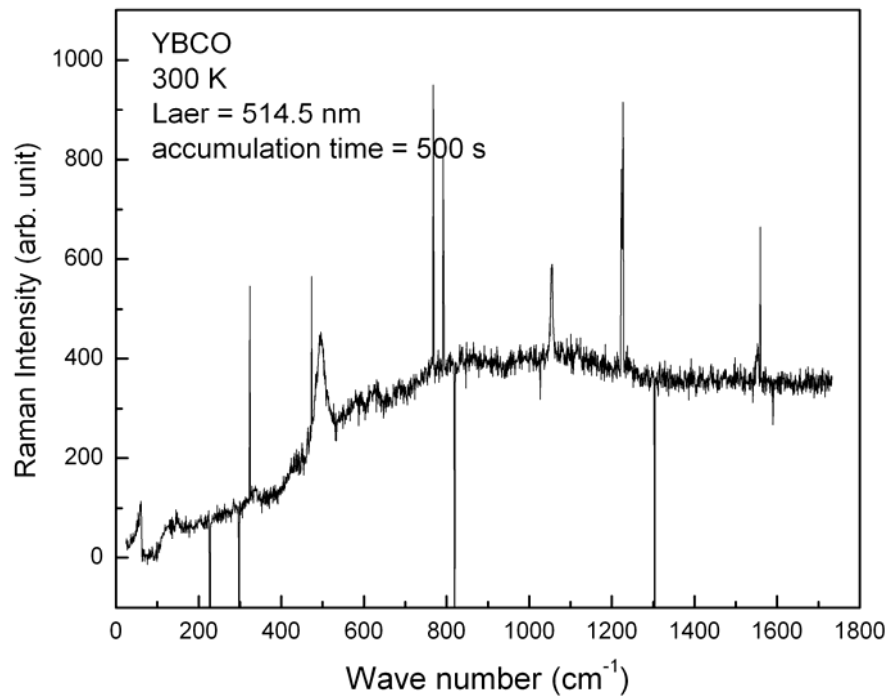


Fig. 7. Raman data taken on pellet sample.

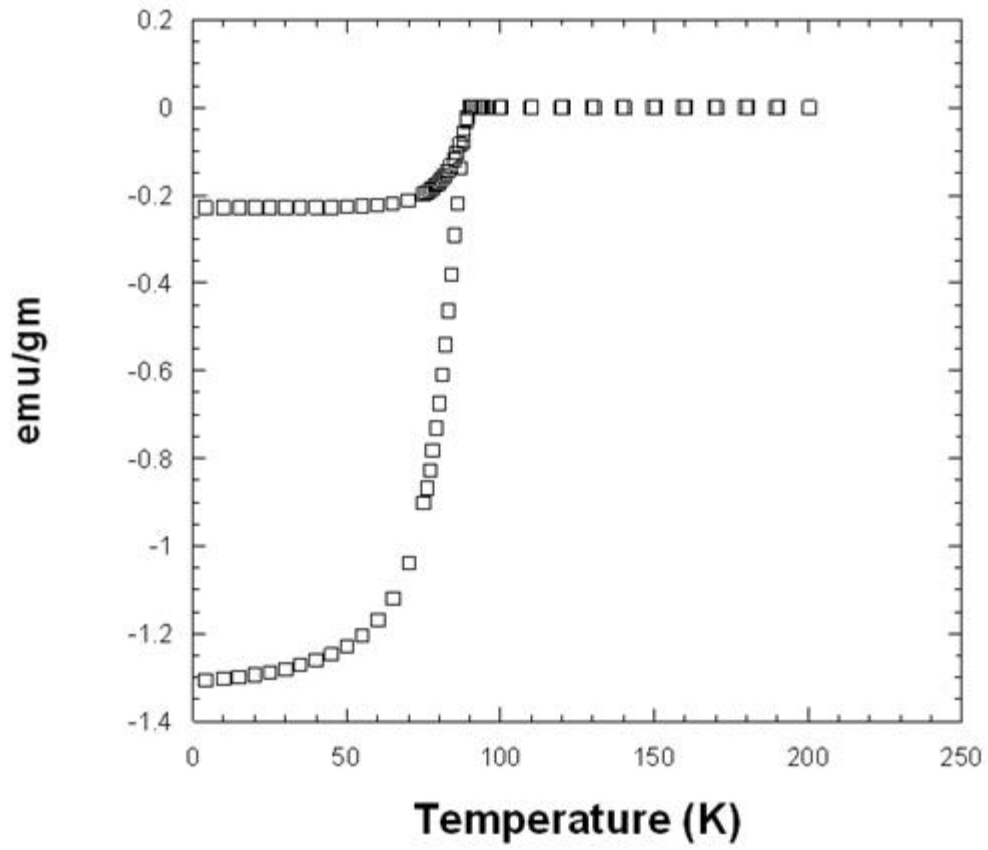


Fig. 8. Magnetization taken on pellet sample.