MU_FSCI_PHYS_DATA_Rabee.Ibrahim

Personal Data:

Rabi A. Ebrahim Phone: +002-0105822537

(Mobil)

Phys. Dep. +002-0482235689 (Fax)

Faculty of Science

Minoufiya University

Minoufiya Email: rabhad2@hotmail.com

Egypt

Sex: Male

Marital status: married

Nationality: Egyptian

Date of birth: 6st March, 1976

Research interests:

During the M. Sc. program,

- I have been working on YBaCuO superconductors doped with Mo in the Y site, Ba site and Cu site. Samples prepared using solid state reaction

technique at different conditions. Structure, nominal composition, critical temperature and magnetic properties have been investigated.

- The structure of YBaCuO compounds was investigated using IR spectroscopy and XRD analysis data.
- By analyzing data variations of structure and superconducting properties which, produced from Mo doping in the three sites, Prof. M. A. El-Shahawy and me concluded that, hole concentration and oxygen distribution in the compound affected with Mo doping by different mechanisms, which depend on the position of the Mo atom in the crystal structure of YBaCuO i.e. (near planes or chains).
- In future, if an opportunity is available, I would like to work on the following exiting problems:
- 1- Structural, electrical, magnetic and other superconducting properties of new superconductors.
- 2- Developing a new applicable superconductor with high T_C , low cost and easy shaping.

$MU_FSCI_PHYS_LINK_Rabee.Ibrahim$

ACADEMIC QUALIFICATIONS:

- M. Sc. (Solid State)

2004, Dep. Of Physics, Minoufiya University, Minoufiya, Egypt.

Thesis entitled "Preparation and Characterization of Some Doped Y-123 Superconducting Systems".

(Submitted on 12-04-2004)

- B. Sc. (physics)

82% (very good), 1997. Minoufiya University, Sheben El-Kom, Egypt.

Technical Experience:

- 1- Dc conductivity measurements (Four-Probe Method) at low temperatures using cooling system "cryo-compressor, model: 531-120-IBRA" supplied with "cooled head, model: CCS-100EB-JAUS RESERCH CO." and temperature controller, model: 321-Autotuning Temperature Controller-LAKSHORE".
- 2- IR analysis using 1430 Ratio Recording Infrared Spectrophotometer-Perkin-Elmer
- 3- Ultrasonic velocity and attenuation measurements.

4- Hardness measurements using Vicker Microhardness Tester (SHIMADZUHMV-2)

Computer Proficiency:

Operating Systems: WINDOWS 98, XP, Office 2003, Grapher 3.1,....

Experience:

1999-2004 Administrator, in physics department- Minoufiya University.

2004 Assistant lecturer, in physics department- Minoufiya University.