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Vijaya Srinivasu VALLABHAPURAPU

Department of Physics, University of South Africa (UNISA), Johannesburg

Low Field Microwave Absorption and Novel Magnetism*

Abstract

Low field microwave absorption (LFMA) was first observed in Cuprate high-Tc Superconductors. Later LFMA was reported in half metallic manganites, then followed by some magnetic materials. The fact that LFMA is not observable in every magnetic material makes this phenomenon intriguing. Examples for LFMA in ZnO system arre given, then LFMA in multiferroic BiFO3 system is described. We then show our preliminary results from BiFe0.5Mn0.5O3 system from Parma.

The remaining part of my talk is about a brief description of other activities of my group at UNISA:

- 1. LFMA in Iron Pnictide Superconductors and
- 2. Fabrication of small Josephson Junctions.

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