



KOÇ UNIVERSITY

Science – Math Seminar

- Speaker:** Erhan Coşkun
Department of Mathematics, Karadeniz Technical University
- Date:** Thursday, Dec. 2, 2004
- Time:** 16:45 (Tea and cookies will be served at 16:30)
- Place:** Science building, Room Z42
- Title:** Isothermal and anisothermal extentions of GL model of superconductivity and their properties

Abstract:

Following a brief overview of Superconductivity and stationary and Time-dependent GL models, the talk will focus on isothermal and anisothermal extentions of time-dependent GL model for homogeneous thin film superconductors subject to applied field, constant or time-dependent, normal to the plane of the sample. We investigate coupled thermal and electromagnetic properties of both Type-I and Type-II superconductors. Transient behavior of observable quantities such as induced magnetic field, density of superelectrons and temperature will be displayed by an interactive video developed with MATLAB GUI.

Please visit <http://sci-math.ku.edu.tr/> for a schedule of upcoming Science -Math seminars.