

Nonlinear Double Day Extension

Macroscopic effects of anharmonic excitations

Organized by GFNL, the Group of Nonlinear Physics of the University of
Sevilla (<http://www.grupo.us.es/gfnl>)

With the collaboration of the Department of Applied Physics I

Heat transport in low dimensional systems

Speaker: **Roberto Livi**, Dipartimento de Fisica, University
of Florence, Italy

June 3, 2004.

Part I: Generalities and basic models: 17.30-18.30 h.

Part II: Recent achievements (including an illustration of analytic
methods). 19-20 h.

Location: **Department of Applied Physics I at ETSI Informática** . Avda
Reina Mercedes s/n, 41012-Sevilla, Spain

Abstract:

Heat transport in low-dimensional systems may exhibit anomalous behaviors, depending on the nature of the interaction. Moreover, disorder and anharmonicity may yield different scenarios. We survey this problem in various 1-d and 2-d models: numerics and analytic approaches allow to obtain a consistent view of the problem.

Organiser: Juan FR Archilla