

Arthur E. Imperatore School of Sciences and Arts

Department of Mathematical Sciences

Seminar in Nonlinear Systems

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Nonequilibrium Statistical Mechanics of Infinite Hamiltonian Systems

> Thursday, May 2, 2002 3:30 pm Kidde 228

Abstract: We consider a model consisting of a finite dimensional Hamiltonian system coupled to one or several infinite dimensional linear Hamiltonian systems. We construct invariant measures for the coupled system and describe their ergodic properties (exponential mixing) as well as their physical properties (entropy production).