

Name: Natália Bebiano, bebiano@mat.uc.pt

Affiliation: Department of Mathematics, University of Coimbra, Portugal

Title: The thermodynamics of systems described by non-Hermitian Hamiltonian operators

Abstract: The appearance, in quantum physics, of non-Hermitian Hamiltonians possessing a discrete real spectrum inspired a remarkable research activity. In this talk we revisit standard concepts of thermodynamics for systems described by a non-Hermitian Hamiltonian with real eigenvalues. We mainly focus on the standard case where the energy is the unique conserved quantity. However, other conserved quantities may be considered. Numerical range techniques are used.

Co-author: João da Providência.