

Non-Equilibrium States of a Leaky Photon Cavity

Valentin A.Zagrebnov (Département de mathématiques - AMU, France)

Valentin.Zagrebnov@univ-amu.fr

Repeated interaction of a beam of two-level atoms with a one-mode photon cavity can produce a quite curious dynamics of the cavity state. For stationary beam of (randomly) excited atoms this state is not stationary and manifests a pumping by photons. For the case of a leaky cavity (Kossakowski-Lindblad dissipation) the corresponding open system yields a non-equilibrium steady state (NESS).