Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
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SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

(Zajednički seminari Zavoda za teorijsku fiziku,
Zavoda za eksperimentalnu fiziku i Zavoda za teorijsku fiziku PMF-a)

# Nonequilibrium Higgs transition in classical scalar electrodynamics

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**Abstract:**

Real time rearrangement of particle spectra is studied in a U(1) Gauge+Higgs system. The cold system starts from the symmetric phase.Evolution of the partial energy densities and pressures reveal well-defined equations of state very early. Hausdorff dimension of the Higgs defect manifold, eventually seeding vortex excitations is thoroughly discussed. Scaling dependence of the vortex density on the characteristic time of the symmetry breaking transition is established.

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