PHYS 744. FINITE TEMPERATURE FIELD THEORY.

Credits: 3

Offered by: Physics (Graduate Studies)

This course is not offered this catalogue year.

Description

Tools of finite temperature (relativistic) field theory. Thermodynamics, introducing bosonic and fermionic Euclidean path integrals. Pressure in a free theory, the perturbative expansion, thermal masses, and symmetry restoration. Schwinger-Keldysh contour path integral and its perturbative expansion. Collective phenomena such as dispersion corrections, plasma oscillations, Debye screening and Landau damping.

- Prerequisite: PHYS 610.