

Contribution ID: 70 Type: Poster

Phase transition of photons and gravitons in a Casimir box

A first order phase transition for photons and gravitons in a Casimir box is studied analytically from first principles with a detailed understanding of symmetry breaking due to boundary conditions. It is closely related to Bose-Einstein condensation and accompanied by a quantum phase transition whose control parameter is the chemical potential for optical helicity.

Primary authors: Mr AGGARWAL, Ankit (Universite Libre de Bruxelles, University of Amsterdam); BAR-NICH, Glenn (Universite Libre de Bruxelles)

Presenter: Mr AGGARWAL, Ankit (Universite Libre de Bruxelles, University of Amsterdam)

Session Classification: Reception & Poster session