

MANIPULATING MATTER WITH LIGHT: THE CASE OF SUPERCONDUCTORS

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Broken-symmetry states in condensed matter offer the unprecedented opportunity to observe collective electronic modes behaving as particle-like excitations. A famous example is the Higgs amplitude mode in superconductors. However, its weak coupling to light makes it hard to observe it in conventional conditions. In this talk I will review our progresses in the theoretical understanding of light-matter interaction in superconductors when non-linear optical effects come into play.

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