



Contribution ID: 63

Type: **not specified**

Exploring nonequilibrium field theories with cold atoms and solid state systems

Tuesday 23 July 2019 11:15 (45 minutes)

Generation of entangled particle pairs underlies several important phenomena in non-equilibrium field theories including Hawking radiation and dynamical Casimir effect. I will discuss application of these ideas to understanding pump and probe experiments in condensed matter systems and ultracold atoms. Examples include superconducting Higgs amplifiers, phonon-polariton lasing, shaken one dimensional condensates, and dynamics of a BEC with local loss.

Authors: Prof. PODOLSKY, Daniel (Harvard University); Dr SELS, Dries (Harvard University); Prof. DEMLER, Eugene (Harvard University)

Presenter: Prof. DEMLER, Eugene (Harvard University)