



SEMINAR ANNOUNCEMENT

Studies in Vacuum Cavity Quantum Electrodynamics (cQED) and Applications in Mesoscopics and Particle Physics

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Cavity Quantum Electrodynamics (cQED) has been an important area of physics for many decades and has become a foremost element of modern studies in a number of physical science disciplines, ranging from investigations in Casimir physics, cold atoms, femto-second lasers, nanoscience and more recently in quantum computing. A less known application of cQED lies in the realm of particle physics, where Dark Matter (DM) particle searches rely on cold cavities to search for the elusive axions. In this colloquium, an overview of cQED is presented in addition to outlining its novel applications in the area of mesoscopic physics and particle physics mainly in studying mesoscopic scale Quantum Point Contacts (QPC's) and developing an experiment for DM axion searches at the Jazan University physics department.

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