THEORETICAL PHYSICS SEMINAR CIRCUIT

S N BOSE NATIONAL CENTRE FOR BASIC SCIENCES

SALT LAKE, KOLKATA 700 106

NOTICE FOR SEMINAR

Title

Cooper pair splitting in a graphene based beam splitter geometry

Speaker: Dr. Arijit Saha

Reader-F, Institute of Physics (IOP), Bhubaneswar

Date: 13th September 2017

Time: 04:00 pm

Venue: Fermion Hall

Abstract

Cooper pair inside the superconductor is the natural source of Entangled electrons. In this talk, I will discuss how to split the Cooper pair out of the graphene based superconductor to generate entangled electrons. The Cooper pair splitting current from superconductor to leads via two different quantum dots will be presented and how it advances the existing results compared to the normal BCS superconductor, will be discussed.

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