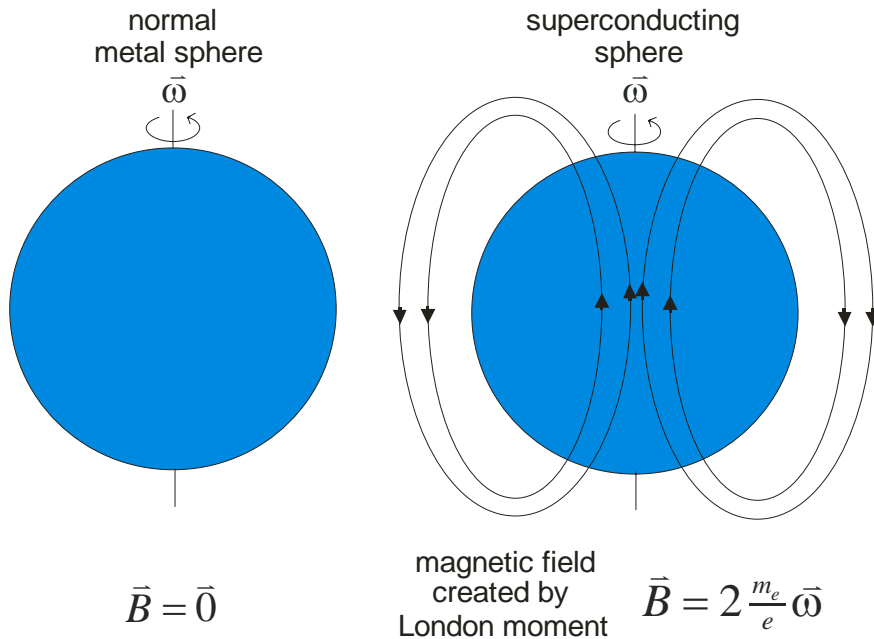




COLLOQUIUM



Steven Minter
UC Merced

Production and Detection of Gravitational Radiation by Means of a Two-Body Superconducting System

Abstract

A two-body superconducting system may be able to convert gravitational radiation to electromagnetic radiation and vice-versa due to flux quantization of magnetic field lines generated by modulated persistent supercurrents. The physics involving this conversion process will be explained, as well as the experimental procedures that are being used to verify the theory. Applications of gravitational radiation as they pertain to applied mathematics, engineering, and astronomy will also be discussed.

3-4 p.m., Friday, February 1st
McLane Hall 162