CMP Seminar Michigan State University

Andrew Jordan University of Rochester

The Quantum Road Most Taken

The concept of continuous quantum measurements will be discussed, based on a measurement device that continually gives information about a system it is interacting with. I will present a stochastic path integral approach to this physics, and gives examples of continuous wavefunction collapse by measuring one component of a pseduo-spin, and a continuous florescence measurement of a decaying two level system. I will also discuss comparisons of this work to recent experimental investigations, focusing on the most likely quantum path taken by the state between boundary conditions in time.

Monday, Nov. 9, 2015 4:10 PM BPS 1400 Prof. Mark Dykman - Host