

PHYSICAL MATHEMATICS SEMINAR

Role of the zero-point radiation field in the emergence of quantization

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ABSTRACT:

Based on the consideration of a real fluctuating electromagnetic radiation vacuum in permanent interaction with matter, stochastic electrodynamics has been able to establish the connection with quantum mechanics through various pathways. In this talk I will present a brief overview of the theory as well as some specific results, including the emergence of quantization, the electron spin, and entanglement between two identical particles. The theory is seen to offer an entirely rational, realistic, causal and local perspective of quantum mechanics.

TUESDAY, DECEMBER 13, 2016

2:30 PM

Building 4, Room 257

*Reception following in Building 2, Room 290
(Math Dept. Common Room)*

<http://math.mit.edu/seminars/pms/>