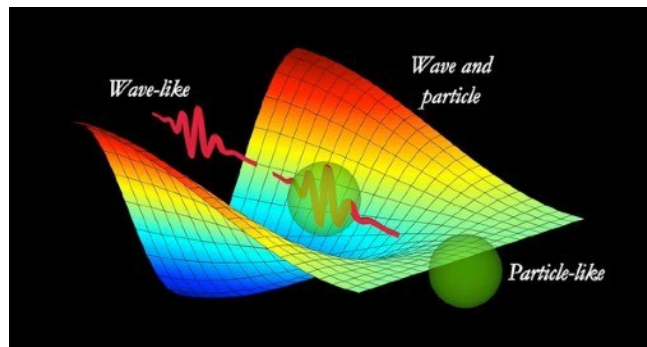




DUALITY IN NATURE: OF PARTICLES AND WAVES



Thursday April 19 Project Open Office, 180WEA1G 7:30-9 \$5 at door

My subject dates back to the beginning of the quantum theory, around the early years of the 20th century. It was an exciting time to be an experimental physicist in spite of the primitive nature of the equipment. I hope to impart some of that excitement to you in an hour and a half.

Physicists Max Planck, Niels Bohr, Albert Einstein (yes, him again, and others) were associated with the first elements of this new theory. Particles and waves were considered two distinct concepts until experiments suggested that particles and waves sometimes behaved like one another, but were never present at the same time. Thus, the duality of nature.

I will discuss the distinct characteristics and properties of both, will review early experiments which revealed these properties, and talk about the men associated with their discoveries.

Space limited. Register with Professor Orenstein at: s.orenstein@verizon.net or with Eleanora Von Dehsen 212-875-0654 esvd222@gmail.com

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