

PHYSICAL MATHEMATICS SEMINAR

THE MOST BEAUTIFUL EXPERIMENT IN PHYSICS

HERMAN BATELAAN

University of Nebraska-Lincoln

ABSTRACT:

Decades ago Davisson and Germer got the Nobel prize in Physics for demonstrating the wave nature of electrons, by diffracting them from a crystal grating. Just several years ago the readership of "Physics World" voted that the building of a double slit electron diffraction pattern one-particle-at-a-time, is the most beautiful experiment ever done. Tonomura's famous patterns are of that nature but done for a biprism interferometer. In the seminar we will focus on some questions. Has the double slit electron diffraction been done? What does it mean? And what has that got to do with bouncing oil droplets?

TUESDAY, DECEMBER 7, 2010

2:30 PM

Building 2, Room 105

Refreshments at 3:30 PM in Building 2, Room 290



Massachusetts Institute of Technology