



WAVE-PARTICLE-DROPLET TRIALITY??

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Wednesday, September 21, 2011
4:00 P.M. NSH 118
(Refreshments at 3:30 P.M. NSH 202)

The double-slit experiments for photons and electrons are considered cornerstones of modern physics. Feynman's account of these experiments is one of the most popular. To get as close to Feynman's description of double-slit diffraction we did some experiments. This includes closing individual slits on demand, and taking a movie of the build-up of the diffraction pattern one particle at a time. In recent work done in Paris, macroscopic particle-wave duality with bouncing oil droplets was demonstrated for the first time ever. This was supposed not to be possible. What does that mean for microscopic or quantum-mechanical particle-wave duality for electrons and photons?

Colloquium

All interested
persons are
cordially
invited to
attend.