Joint DESY and University of Hamburg Accelerator Physics Seminar

Tuesday, 18.01.2011

(16:00 in Room 459/30b)

Gedankenexperiments Become Reality —
the Strange Features of Quantum Mechanics in the Light of Modern Experiments

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Uni-HH

The topics are:

- Particle-wave duality and modern “double-slit” experiments.
- Entanglement.
- The Einstein–Podolsky–Rosen (EPR) paradoxon.
- Bell’s inequality.
- EPR experiments with entangled photons.
- The non–local nature of quantum mechanics.
- Schrödinger’s cat.
- Decoherence and the classical-quantum boundary.

J.Roßbach (Univ. HH) and M.Vogt (MFL).