Abstract Submitted for the NES09 Meeting of The American Physical Society

VisualPhysics.org DOUGLAS SWEETSER, none — This new web site is designed to facilitate forming a community whose animations are every bit as sophisticated as the math encountered in any realm of physics, even quantum mechanics. All animations involve events embedded in spacetime. Events are treated mathematically as quaternions, with time as a scalar, and space as the 3-vector. A collection of quaternions can be sorted by time, put in the right frame for a finite animation, then with ray tracing software, drawn in space with shadows. The groups U(1), SU(2), U(1)xSU(2), and SU(3) all have new visual representations. In the talk I will present a visual explanation of the delayed-choice experiment of quantum mechanics.

> Douglas Sweetser none

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