

Abstract Submitted
for the MAR08 Meeting of
The American Physical Society

Analytical Animations: New Views of Physics DOUG SWEETSER,
none — Analytical animation, like analytic geometry before it, opens new ways to look at physics. Systems with both spin 1/2 and spin 1 symmetry can be animated. The groups $U(1)$, $SU(2)$, and $SU(3)$ of the standard model are viewed as animations, and together make visual sense. A new perspective on gamma matrices, a tool used in quantum field theory, is easy to understand based on images. All software used is open source.

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Date submitted: 26 Nov 2007

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