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**Lawrence S. Braden\*** (lbraden@sps.edu), Lawrence S. Braden, St. Paul's School, Concord, NH 03301. *F dot ds...Simple Calculus, Deep Physics*. Preliminary report.

See why Conservation of Momentum is a theorem, not an axiom (Feynman, "The Nature of physical Law"). And why Einstein's ubiquitous "E equals mc squared" is not really the heart of nuclear weapons, but the work integral (Serber, "The Los Alamos Primer".)

A simple and direct derivation of Einstein's formula will be provided as a handout.) (Received August 08, 2008)