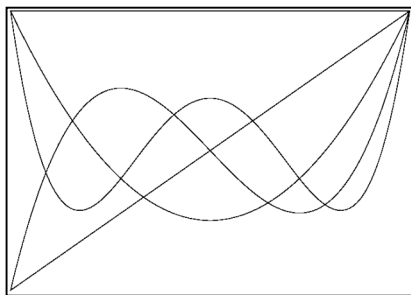


Physics Department Seminar

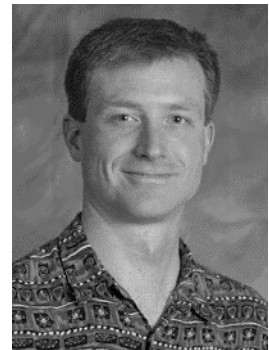
Friday March 26th, 2004

11:00am in PhSc 105

“Water Balloons, Nuclear Energy Levels, And Other (Ab)Uses Of Legendre Polynomials”



Dr. Eric Ayars
Professor
Department of Physics
CSU Chico



Abstract:

Legendre polynomials are most often used to solve problems in electricity & magnetism; but they're applicable to many problems with the

right sort of symmetry. In this talk I'll apply the polynomials to the "problem" of water-balloon oscillations, then misapply those questionable results to the theory of nuclear energy levels, and eventually obtain a prediction that is wrong most of the time.