

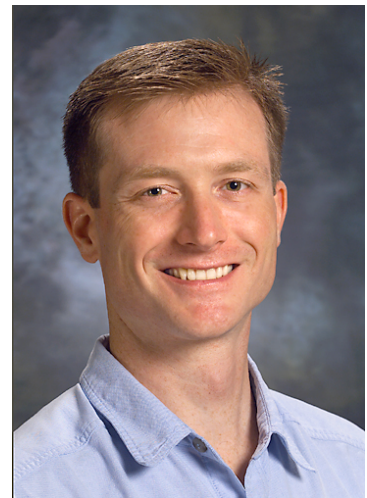
# Physics Department Seminar

Friday April 4<sup>th</sup>, 2008

11:00am in PhSc 108

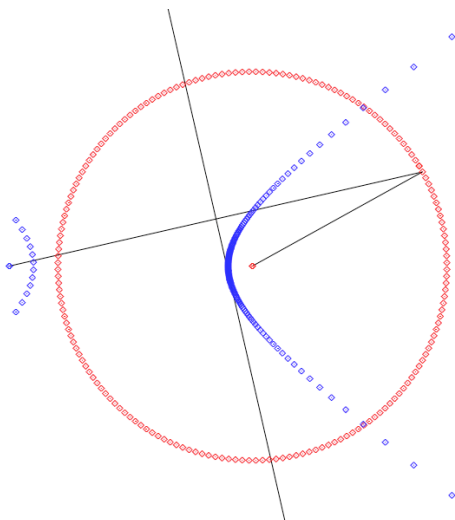
## “Orbits without Calculus”

Dr. Eric Ayars  
Department of Physics  
CSU Chico



Abstract:

Eric Ayars' presentation  
of David Goodstein's elucidation  
of Richard Feynman's modification  
of Isaac Newton's explanation  
of Johannes Kepler's calculation  
of Tycho Brahe's observation



in which Newton's first two laws of motion  
and law of universal gravitation are shown to  
be correct, using only high-school geometry.