ALΣXANDΣR; CEO SAND BOX GEOMETRY LLC

ON 21ST CENTURY <u>PRINCIPALS of NATURAL PHILOSOPHY</u>; GRAVITY, ATOMS, and CHANGE OF STATE.

Parametric Geometry of Two Central Force Fields and Accompanying Mechanical Energy Curves

Mechanical <u>Energy Curves</u> of Gravity (part 1)

- Page (4-15) Gfield energy curves.

Nuclear Mechanical <u>Shaping</u> Curves (part 2)

- Nuclear **CSDA** (page16)
- Page (17-23) nuclear assembly (parametric construction of an atom)
  - Bond plane atom1 and atom2
  - Electromagnetic bond phenomena
  - Nuclear Gravity Field hook

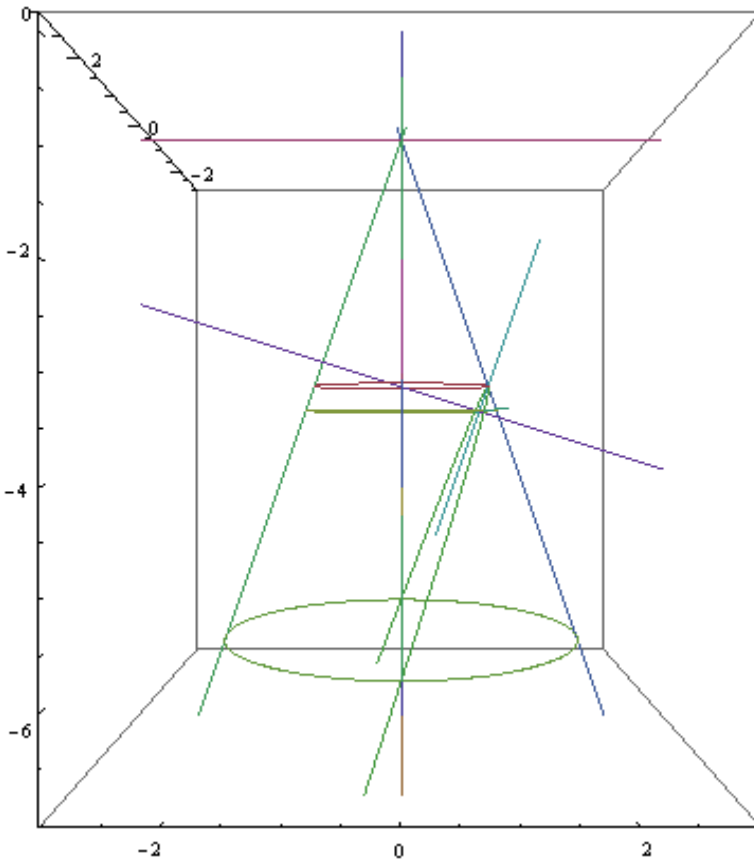Nuclear Phase Transition (<u>Latent Heat Thermometer</u>) (page 24 – 28) (part 3)

33 pages; 6222 words

Using computer parametric geometry code to construct the focus of an Apollonian parabola section within a right cone.

"It is remarkable that the directrix does not appear at all in Apollonius great treatise on conics. The focal properties of the central conics are given by Apollonius, but the foci are obtained in a different way, without any reference to the directrix; the focus of the parabola does not appear at all... Sir Thomas Heath: "A HISTORY OF GREEK MATHEMATICS" page 119, book II.

The computer is my sandbox, the unit circle my compass, and the focal radius of the unit parabola my straight edge.

ALƩXANDƩR; CEO SAND BOX GEOMETRY LLC

CAGE FREE THINKIN' FROM THE SAND BOX

The square space hypotenuse of Pythagoras is the secant connecting ($\pi/2$) spin radius (0, 1) with accretion point (2, 0). I will use the curved space hypotenuse, also connecting spin radius ($\pi/2$) with accretion point (2, 0), to analyze g-field mechanical energy curves.
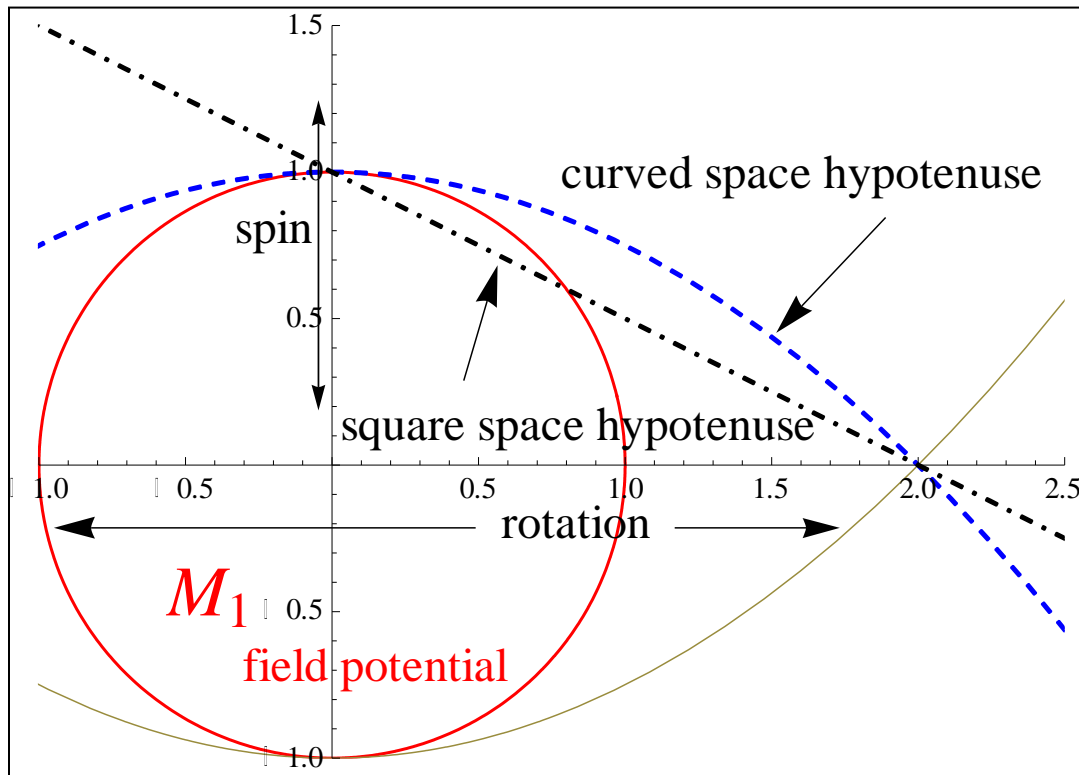
CSDA demonstration of a curved space hypotenuse and a square space

hypotenuse together.

We have two curved space hypotenuses because the gravity field is a symmetrical central force and will have an energy curve at the **N** pole and one at the **S** pole of spin; just as a bar magnet. When exploring changing acceleration energy curves of M_2 orbits, we will use the N curve as our planet group approaches high energy perihelion on the north time/energy curve.

ALƩXANDƩR; CEO SAND BOX GEOMETRY LLC