

## Readings from the SandBox

Two points in Euclidean space make a line. In Gaussian and Riemann space, when two points act as radius and curvature we still have a two-point linear connection (radius of curvature) defining a curve with square space metrics. When one point suffers specific mathematical operation, being  $(point)^2$  and  $\sqrt[2]{point}$ , we can read specific happenings across the linear connection linking square space with curved space. We begin defining Curved Space mechanical manipulation of our Square Space Being using square and inverse square.

Finding number fields of  
Curved Space.

7/6/24

I believe there are two number fields writing Central Force Gravity field maps on falling and orbit motion. One #field operating on the domain of central force curved space and one #field fixed on what I refer to as Curved Space Directrix, a limit on curved space range, marked at unit(1) on spin as unit range/unit space. To fix a limit on central force range mapping changing domain space requires such a number field be parallel with the central force domain and define both time needed to get there (range) and required energy to stay there (domain) space. A collated assembly of first second space-time tile(s) from (F) to  $(t^2)$ .

Number Fields of  
Curved Space

If we want to learn how to construct curved space mechanical energy of central force fields, it is necessary to learn the shaping phenomena of exponents in square space and inversed exponents of curved space.

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Let us filter the busy. The degree(2) lift energy curves source from ( $F$ ) as flat line ( $0slope$ ) events, indicating a start from rest energy. They pass across altered Cartesian counting integers on the curved space directrix. Let's do sequential time roll up a degree(2) lift curve and see what an accompanying ( $e$ )tan does.

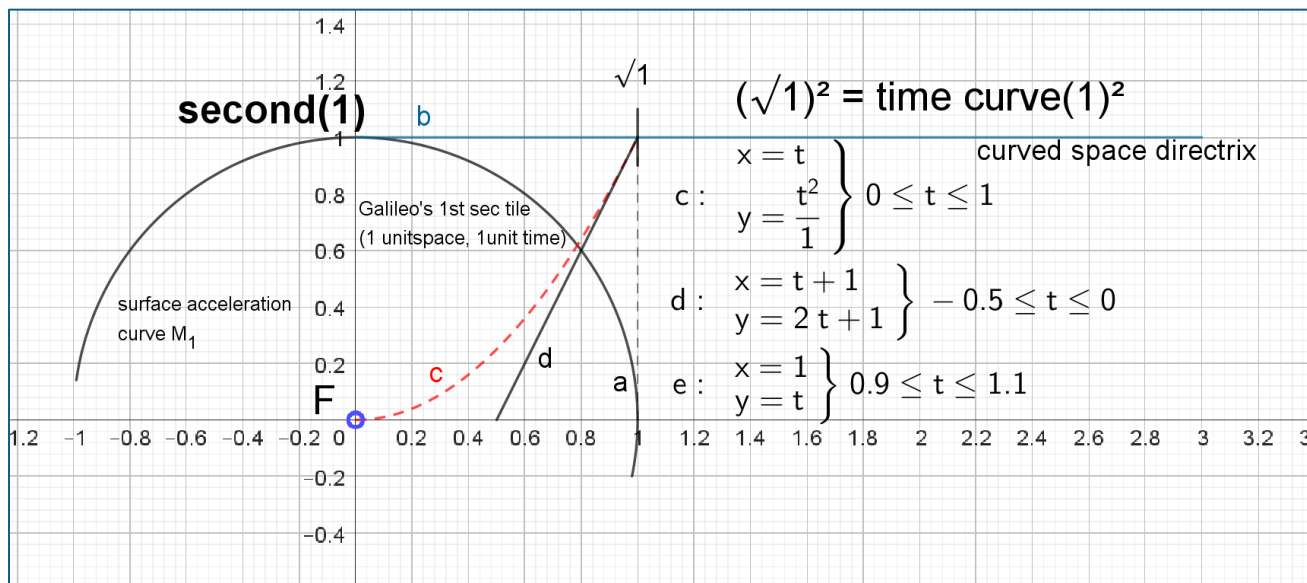


Figure 2; AlexG; 1st second happenings.

**Time Curve(1)<sup>2</sup>:** Galileo and DeCartes, an algebraist and analytic geometer, laid out the foundation math for algebraic space-time tiles. Each SpaceTimeTile is metered as ft/sec on domain side and each one-unit time metered on range side. Figure 1 is my parametrics for the squaring of time curve(1). Tile(1) of my construction belongs to Galileo, it's his space-time tile.

Time curve(1)<sup>2</sup>. A uniform accelerations frame. Each lift energy curve( $c$ ) will source from central force ( $F$ ) with ( $0$ )slope, rest energy, no work being done. The lift energy curve( $c$ ) will find the most remote corner of Galileo's first second tile, *coordinates*(1,1). A reach, a climb out, above the surface acceleration curve( $a$ ) of ( $M_1$ ).

## Readings from the SandBox

(e)tangent(*d*), will always step along the central force domain in 1/2 units of space. (e)tangent(*d*) will connect with lift energy curve(*c*) at a constant slope(+2) at coordinates (1,1) in square space.

A uniform acceleration lift energy curve can only achieve sustainable continuity (somethin' has got to hold it there) with support of an energy tangent intercept, a slope ( $m = +2$ ) event.

A necessary uniform acceleration support structure is always at hand. As the lift energy curve climbs, an accompanying (e)tangent is always moving (1/2) step increments along the domain of central force ( $F$ ) to assure sustainable support for the assigned degree(2) time curve<sup>2</sup> connection. With the (e)tangent intersection at a slope ( $m = +2$ ) event, we will be at a remote

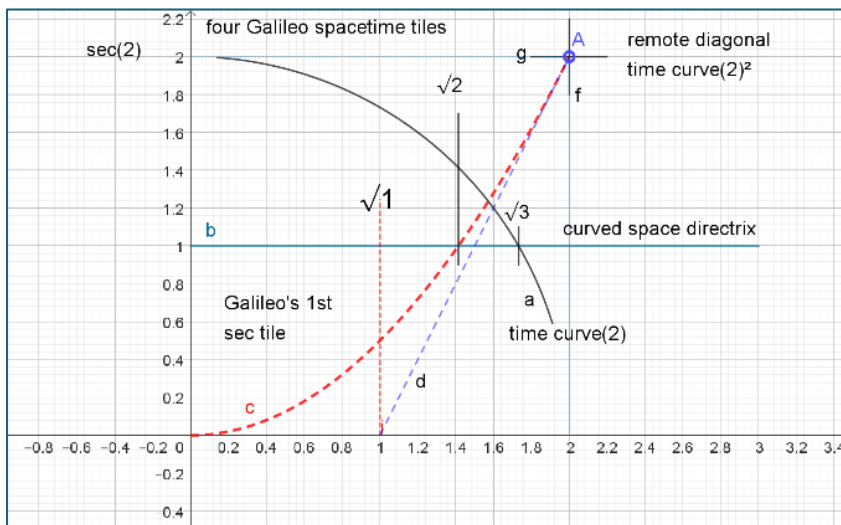


Figure 3: time curve(2<sup>2</sup>)

diagonal of space time<sup>2</sup>.

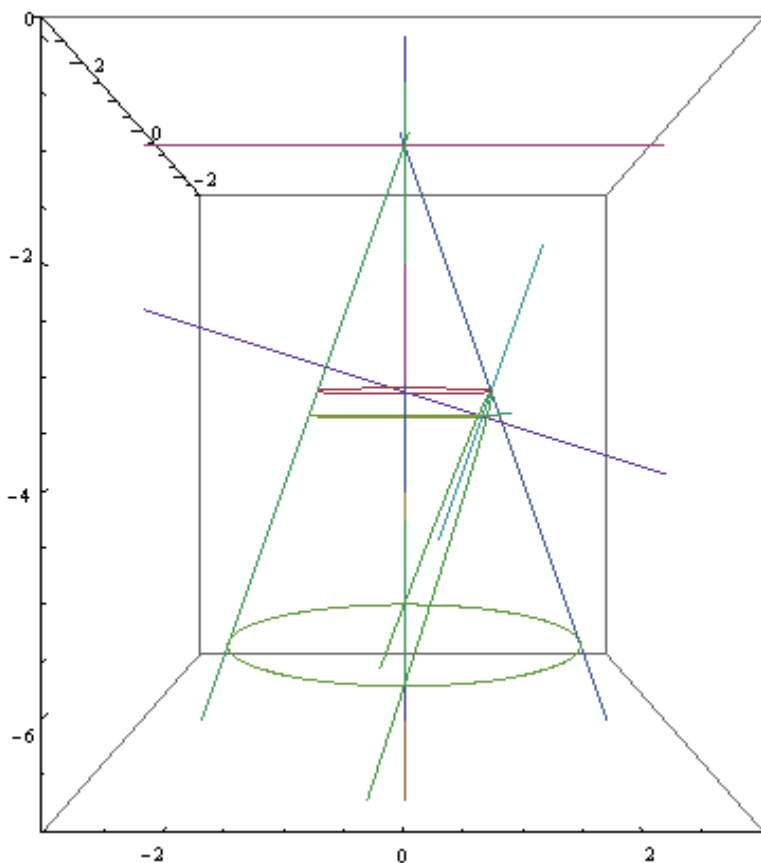
**SUMMARY:** Lift energy curves(*c*) all source from Central Force  $F$  with zero slope as an indication of rest energy. (e)Tangent's(*d*), always move along the Central Force domain in 1/2 step increments.

(e)tangent(1) will start from below  $M_1$ 's surface acceleration curve at 1/2-unit space on the Central Force domain, move  $\left(\frac{1}{2} + \frac{1}{2}\right)$  to (e)tangent(2) on domain space(unit1) of central force  $F$  and rise to the most remote corner of the time-curve(2)<sup>2</sup>.

The etangent read, curve(*d*), enabling intercept of time curve( $n^2$ ) using incremental steps from spin, is quite intriguing. etangent(*d*) connection with the first second tile lift curve(*c*), both start below the surface acceleration curve of ( $M_1$ ), definitely small space quantum world as defined by the unit circle circumference defining separation of our Infinities.



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Ancient Greek Geometry in pursuing exploration and discovery of Central  
Force Field Curves.



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.

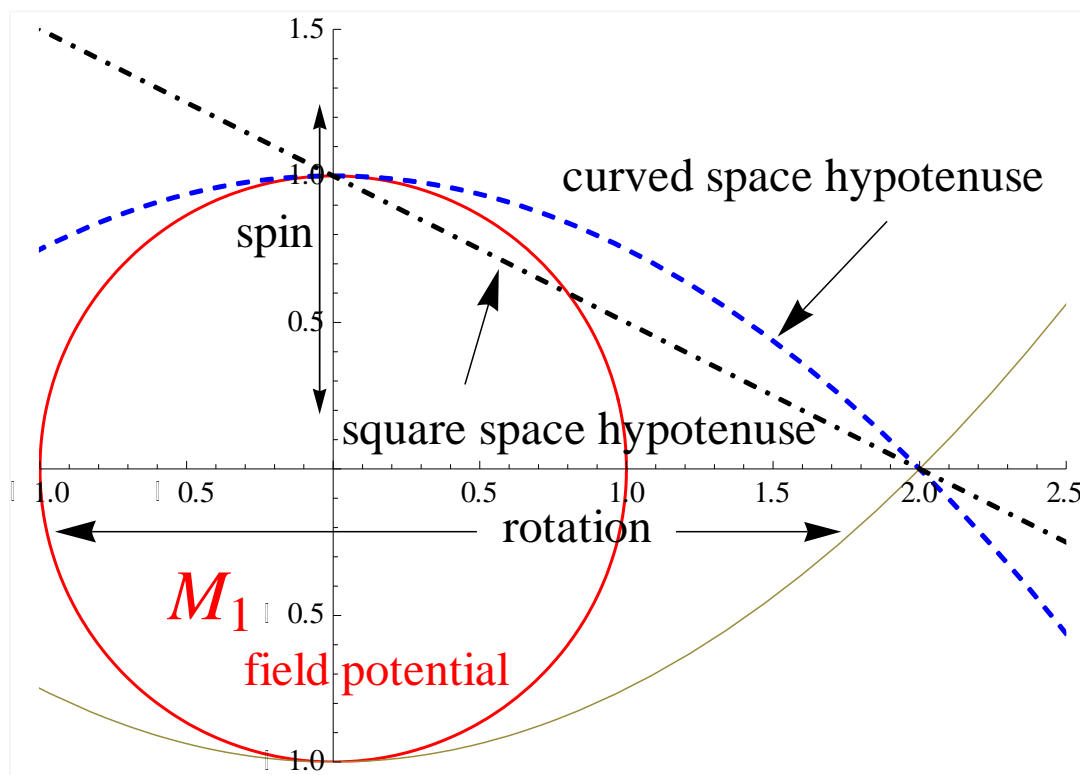
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The computer is my sandbox, the unit circle my compass, and the focal radius of  
the unit parabola my straight edge.

### 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.

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