A SAND BOX GEOMETRY PRESENTATION

Three space and time squares of NATURES CENTRAL FORCE	December 3, 2020
This paper concerns parametric geometry methods of construction for three space and time squares of human experience.	Space and Time Squares; the curved space meter of Central Force Induced square space motion.

S&T1: Galileo; Constant Acceleration Space and Time.

S&T2: Sir Isaac Newton; Changing Acceleration Space and Time.

S&T3: Quantum Small; Periodic Table, Space and Time of Atoms.

SPACE & TIME BEGGININGS

The link below has a very popular image of the G-field curve of space.
The image is a fabric of space laid out as a Cartesian Plane with a distorted sink caused by a heavy mass/volume ratio of M_1 at center. My constructions will put a motive energy footprint onto the sink, a parametric geometry picture of Central Force G-field spin of potential and accretive motive energy operating across three-dimensional orbit space of (M_2)'s. Parametric geometry will demonstrate collection properties of mass; both Big (classic) and Small (quantum), as a function of central force mechanical energy curves working our 3-space (up, down, and around).
The read is also enlightening.

https://www.quantum-field-theory.net/space-time-curvature-relativity/
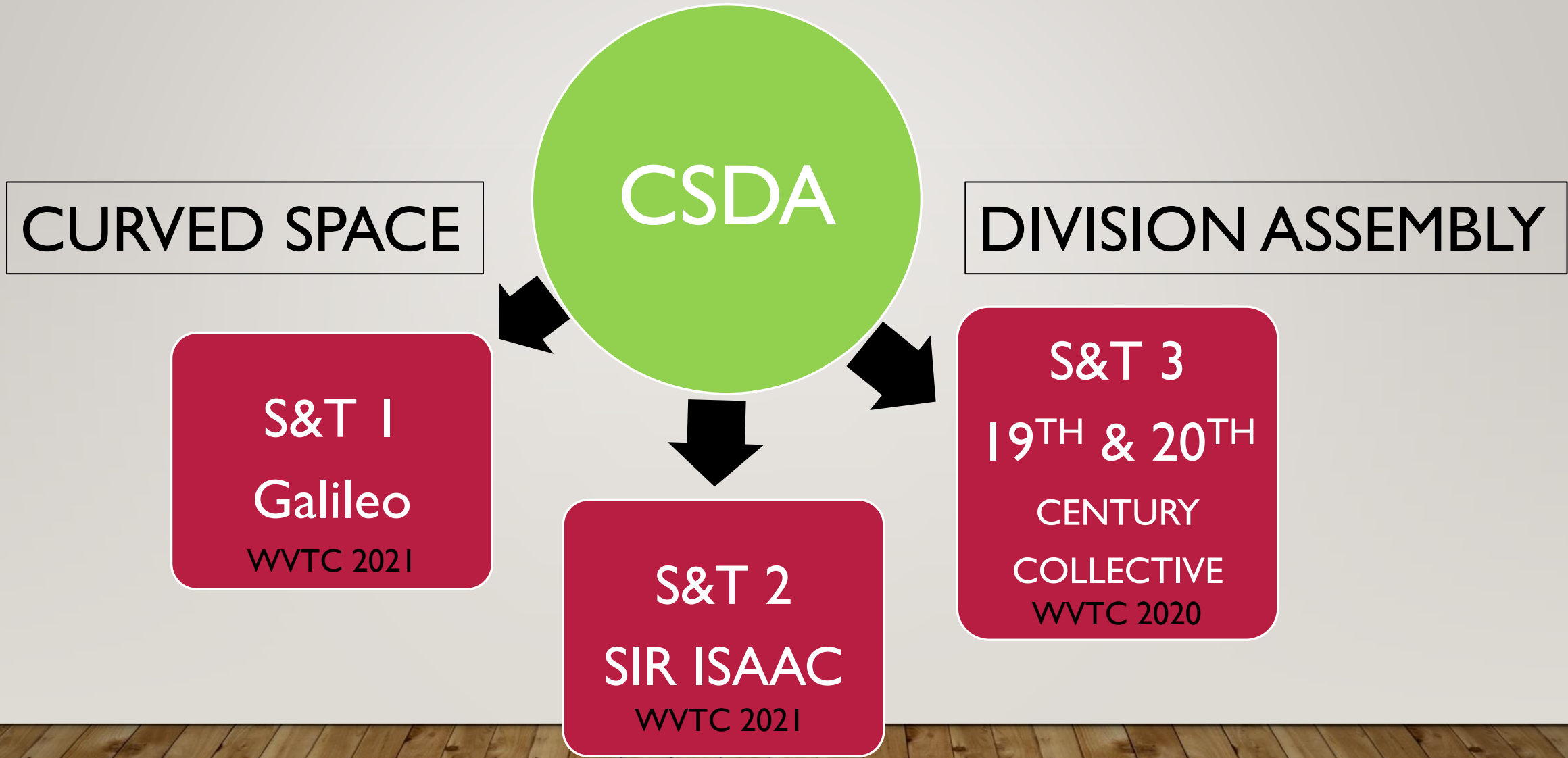
THE PARAMETRIC GEOMETRY OF THREE DISTINCT SPACE AND TIME SQUARES SOURCED FROM NATURAL MECHANICAL ENERGY OF TWO CENTRAL FORCE FIELDS: GRAVITY AND NUCLEAR.

S&T1: Galileo; Constant Acceleration Space and Time.

S&T2: Sir Isaac Newton; Changing Acceleration Space and Time.

S&T3: Thermodynamic Quantum Small; Periodic Table, influenced Space and Time of Atoms by changing (Q); heat.
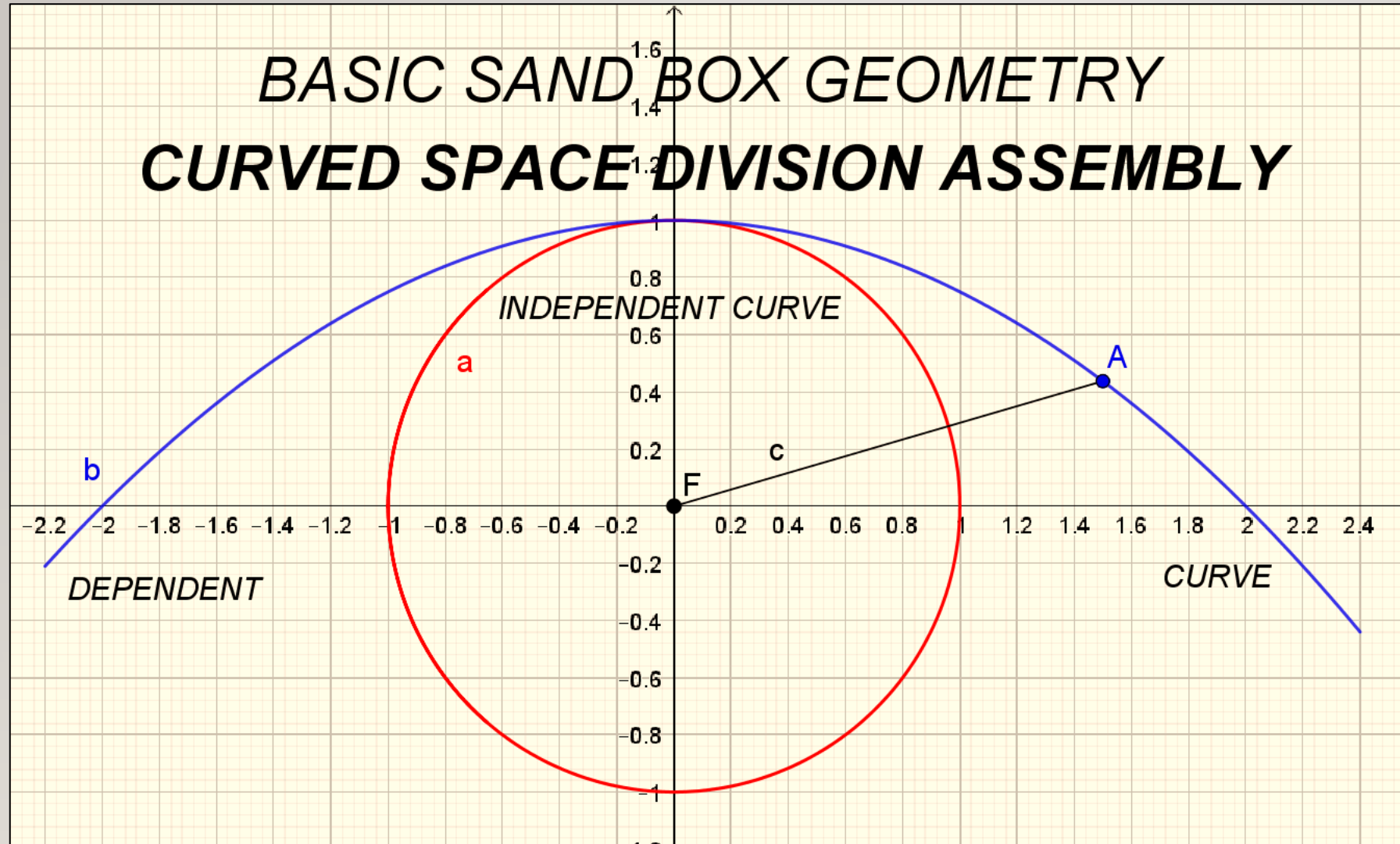
WHAT IS A CSDA?

- DIVISION OF SPACE INTO TWO INFINITIES.
  - ○ MACRO INFINTY
    - ❖ Realm of Radius of Curvature
  - ○ MICRO INFINITY
    - ❖ Realm of Curvature

  For any radius of curvature in Macro-Space, one and only one curvature value can exit in Micro-Space

- TWO CENTRAL FORCE ENERGY CURVES
  - ○ POTENTIAL ENERGY (influence)
  - ○ MOTIVE ENERGY (influenced)

GEOMETRIC GEOGRAPHY OF A SBG **CSDA**

BASIC SAND BOX GEOMETRY
CURVED SPACE DIVISION ASSEMBLY

INDEPENDENT CURVE

a

b

c

F

A

DEPENDENT

CURVE

To construct a Parametric Geometry function, we assign calculus terms to **CSDA** curves.
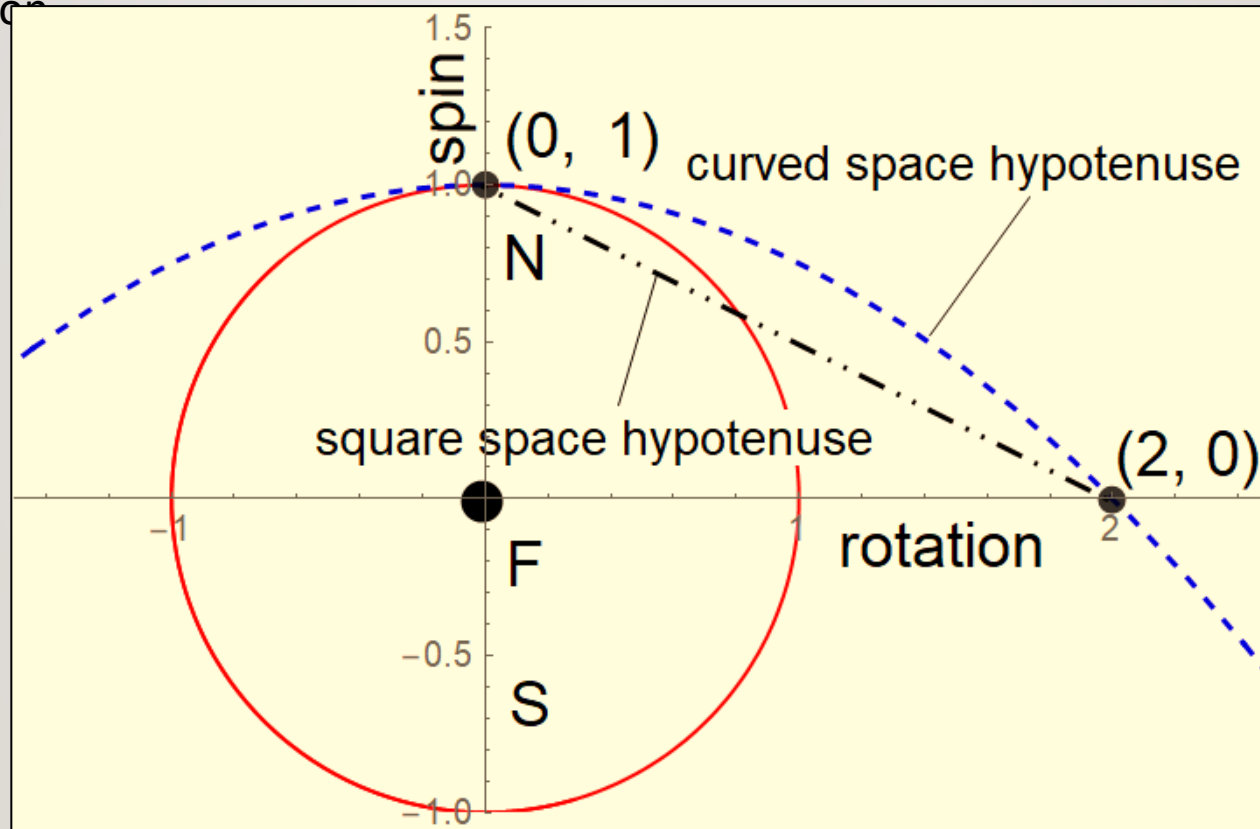Let (a) be the independent curve, and (b) be the dependent curve.
(**F**) Is the central force, (c) a Central force position vector, and Point (A), a Cartesian motive energy map of central force (**F**); (position, position energy).

$$A: \left(r, f(r) \right).$$

7 A **CSDA** will manufacture two hypotenuses, one curved and one linear, linking square space and curved space.

Spin axis of a **CSDA** is one unit of independent curve and rotation plane of **CSDA** produced is two unit's dependent curve.

The square space hypotenuse of Pythagoras is the secant connecting (π/2) spin radius (0, 1) with accretion point (2, 0). I will use the curved space hypotenuse, also connecting spin radius (π/2) with accretion point (2, 0), to analyze $(position, position\ energy)$ and time of position as an event distribution of central force G-field mechanical energy causality of potential and motion.

PARAMETRIC GEOMETRY
of MOTIVE ENERGY AND TIME

S&T1: (j) is free fall corner position in G-field constant acceleration space.
(Constant Acceleration; Galileo Galilei).

S&T2: (π) is perihelion (high e) and (α) is (low e) aphelion. Limits of perpetual (M_2) orbit motion of changing acceleration space-time.
(Gfield changing Acceleration; Sir Isaac).

S&T3: Is nuclear thermodynamic motive energy experience. Temperature&SpaceTime.
(Late 19th and early 20th Century collective; Quantum Level Thermodynamic happenings).

3S&T VERBAL Galileo 2020.nb

Click on link for dynamic **CSDA** demonstration
of Sir Isaac Newton's S&T2

You need choose a tool for your use, I've been using GeoGebra Classic 5. (02/2021)

https://www.geogebra.org/download

https://www.geogebra.org/m/uuruc2xg

I've spent near 25 years exploring G-field mechanical energy. Only recently have I labeled Sir Isaac Newton's **CSDA** as S&T2. I know now that there are three.
It is for this reason S&T2 is first up because all my analytics were born there. Alex

ALƩXANDƩR; CEO SAND BOX GEOMETRY LLC
COPYRIGHT ORIGINAL GEOMETRY BY THE SANDBOX
Sand Box Geometry LLC, a company dedicated to utility of
Ancient Greek Geometry in pursuing exploration and discovery
of Central Force Field Curves.

END of introductory ceremonies.

ALƐXANDƐR; CEO SAND BOX GEOMETRY LLC