ABSTRACT
The Superforce has long been the “the Holy Grail” of Physics. Here is more on its solution. Using AT Math, this paper shows the mathematical derivation of the Superforce as being the area bound by the golden mean parabola and the logarithmic functions from 1 to Pi. Using calculus on the Clairnaut equation, and our knowledge of the equation for the gravitational constant, Using the equation derived in Astrotheology Cusack’s Universe, $E=1/t$, Time and gravity are shown to be finally united.

Keywords: Clairnaut; Time; Golden Mean; Reynolds’s Gravity; Centroids

INTRODUCTION
In Astrotheogly, Cusack’s universe, I proposed that the Superforce, the force that unites the four fundamental forces in the universe, is $F=\frac{8}{3}$. In this brief paper, we continue with those calculations using simple calculus to show that the Superforce is the force times the energy bound by the Golden Mean Parabola and the logarithmic functions. The centroids of this area is the time vector, which provides a proof for the simple, important equation, $E=1/t$. We begin with the Clairnaut equation.

Cusack-Clairnaut Differential Equation

\[
d²E/dt² - E = 0
\]

Gravity is the acceleration of energy or the second derivative of displacement.

What then is the Velocity of energy, or the first derivative of the displacement?

We know from AT Mathematics:

\[
y = y' = y''
\]

Integrating:

\[
\int dE/dt = \int E
\]

$\frac{G^2}{2} = \frac{E^2}{2}

G = E

And,

$\frac{dE/dt}{G} = \frac{G^2}{2}$

$G = \pi/\ln 1.618 \quad [1]

= 6.52

So,

$6.52^2/2 = 4.263 \text{cuz}$

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Time
\[ \frac{dE^2}{dt^2} = E \]
\[ dE/dt = E^2/2 \]
But \( E = 1/t \)
\( E = t = 1 \)

From the Golden Mean Parabola:
\[ dE/dt = 1^2/2 = t \]

The Velocity of energy is time \( t \).
This evokes the Golden Mean Parabola minimum. Plugging the Gravitational constant (less electromagnetic forces) into the golden mean parabola, we have:
\[ t^2 - t^2 - 1 = (6.52^2/2) - (6.52/2 - 1) = 4.486 = \text{Mass } M \]

Using Einstein’s Equation, we can derive the proportional amount of mass in the universe.
\[ E = Mc^2 \]
\[ = 4.486 \times 2.9979^2 \]
\[ = 403 = \text{Reynold’s Number} \]

This is the energy necessary to get the Ether to flow.

Now, to unite gravity and time.

We now know,
\[ G = \pi / \ln 1.618 \]

And,
\[ t = \pi \] and \( t = 1.618 \) and \( t = 1 \)

Refer to figure 1.

Let \( t = 1 \)
\[ = 8/3 = F = \sin t = \sin 1 \] = Superforce

Since \( E = t \)
From the solution of the Navier-Stoke’s Fluid Mechanics problem solved by the author in a previous paper:

\[ F = E \times t = \sqrt{2.666} = 1.633 \] Solution to the Navier-Stokes Problem \[2\]

Now we compute the centroids of the Superforce area under the curves.

**Centroids of Area**

\[
\begin{align*}
y &= (3/2) h \\
    &= 3/8(0.618) \\
    &= 0.927 \\

x &= 0.4y \\
    &= (0.4)(0.927) = 0.37 \\

\text{Time-Energy Vectors} &= \sqrt{[0.927^2 + 0.37^2]} \\
                            &= 0.998 = 1 \\

F &= E \times t = 1 \\
E &= 1/t
\end{align*}
\]

**Figure 2 Centroid of Superforce Area**

**Eta Prime Mesons**

We know from Matrix Theory of Structural analysis,
\[ dU = \delta W - \int \rho \delta u' \, dv \]

Strain energy = Work - Dynamic load
\[ \varepsilon \propto [F_{\text{static}} - F_{\text{dynamic}}] \]

\[ [\Delta L/L] = [F_S] - \int \rho \delta u' \, dv \]

\[ L = 1/2 \]

\[ F_{\text{static}} = ks = 0.4233 \ (1) \]

\[ F_{\text{dynamic}} = \sin \theta = 2.668 = 8/3 \]

So,
\[ \int \rho \delta u' \, dV = F_{\text{dynamic}} = M = \sin \theta \]

\[ M = \int \rho \delta u' \, dv \]

Take the derivative:
\[ M' = \int \rho \delta u' \, dv \]

Since we know \( y = y' = y'' \) etc.
\[ Mv = \rho s a \, dv \]

\[ I = \rho / M * s * a / v \, dv \]

\[ I = \text{Vol.} (s)(0.8415/0.8415) \, dv \]

\[ I = s^3 \, s \, dv \]

\[ I / dv = s^4 \]

\[ I / a = s^4 \]

\[ I / 0.8415 = s^4 \]

\[ s = 957.8 = \eta' = \text{Eta Prime Meson MeV} \]

So,
\[ F_{\text{dynamic}} = M p^* + \Delta E \]

\[ = 957.8 \text{MeV} + 0.1980 \]

\[ E + \Delta E = \eta' + \tau \]

Hamilton’s K.E. = 1/2 \[ \int \rho \, v \times v \, dv \]

K.E. = 1/2 Mv^2 = 1/2 \[ \int \rho \, s^2 \, dv \]

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\[ Mv^2 = \int \rho \, ds^2 \]
\[ Mv^2 = \frac{M}{s^3} \times s^2 \]
\[ v^2 = \frac{1}{s} \]
\[ v^4 s = 1 \]
\[ s = \frac{1}{v^2} = \frac{1}{0.707} = \sqrt{2} \]
\[ \varepsilon_x = \varepsilon_y = 1 \]
\[ s = \varepsilon_0 \]

Now,
\[ K.E. = \frac{1}{2} \int \rho \, v \times v \, dv \]
\[ \frac{1}{2} Mv^2 = \frac{1}{2} (1.27) \times s^2 \]
\[ \frac{1}{2} (4.486)(0.8415) = 1.27 \times s^2 \]
\[ s = 1.8794 \]
\[ s = \Delta L \]
\[ \Delta L / L = \varepsilon_0 = s \]
\[ \Delta L / (1/2) = 1.8794 \]
\[ \Delta L = 119.6 = \text{failure stress} \]
\[ \sqrt{(0.8466)^2 + (0.8466)^2} = 119.7 > 119.6 \]

Mass of Largest Element in Periodic Table of the elements

The Superforce, Hamilton’s Kinetic energy, is stored in elementary particles. This is computational evidence for the Superforce.

**CONCLUSION**

So we see that the Superforce is simply the area bound by the two important equations of the golden mean parabola and the natural logarithm equations which fully describe the mathematical universe. The energy and time vectors are equal to 1. This paper unites gravity, time and the Superforce. The K.E. developed by the Superforce is stored in elementary particle mass.

**REFERENCES**