

## Cusack's Universal Evolution Constant (QUEC)

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### Abstract

In this brief paper, we provide an important calculation on the underlying mathematics that led to a system which is chaotic to evolve into order. We make use of a previous paper that shows the life began 1.75 BYA. The Cusack Universal Evolution Constant is the area under the Mass-time curve  $M=Ln t=1.602$ . This is the charge on an electron  $Q$ .

**Keywords:** Mathematics; Evolution constant; Algorithm; Timeline

### Introduction

I watched a couple of brief videos on msn that were in my feed. One was about how the universe is random, from minerals to humans; the other was about biases in algorithms. From that I've been able to calculate a constant of evolution based on AT Math. It lines up with the timeline for carbon life evolution [1].

The proton is the building block of evolution.

$$M_p = 942$$

The Universe is a random process that acts on the average

$$942/2 = 0.471$$

$$t = e^M = e^{0.471} = 1.60158 \approx 1.602 = \epsilon_0$$

$$t = M$$

$$KE = PE$$

$TE = PE - KE = 0$  Conservation of energy in evolution

$$M = \int Ln t = t Ln t - t \text{ from } 1/2 - \pi = 1.602 M = \epsilon_0 = t$$

$$M = t$$

$$PE = KE$$

Cusack's Evolution Constant for the Universe = 1.602 = QUEC

$$\pi^2 + \pi - 1 = 12.011 = \text{Mass } C^{+4}$$

Statistical correlation  $r$

$$t = e^M = e^{47.1} = 2852$$

$$2t - 1 = 2(2852) - 1 = 1/175 = 1/t = dE/dt$$

$$E = M$$

$$dM/dt = Ln t$$

$$t = 1.75 \text{ Bya (Figure 1)}$$

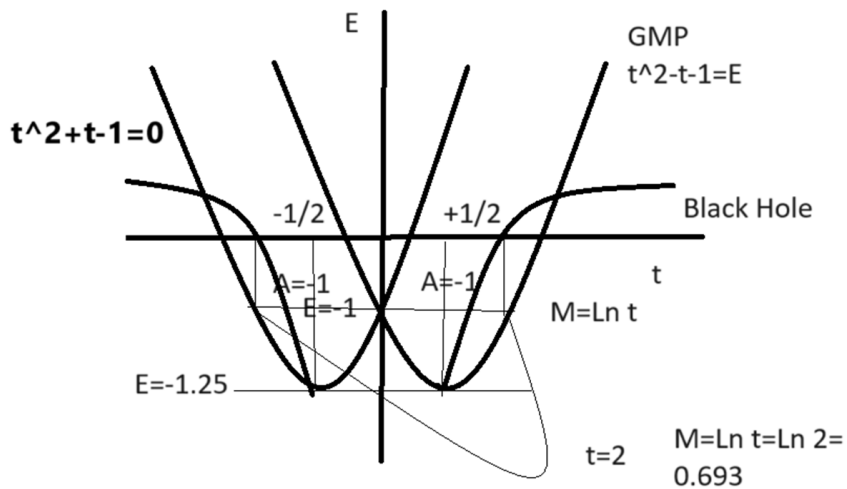


Figure 1: The dual GMP's.

**Conclusion**

There is an evolution constant that results from going from chaos to order. The proton is the fundamental building block in the universe.

**References**

1. Cusack PTE (2024) On sunlight & cells: The origin of life. Significances Bioeng Biosci 6(4): 687-698.