



## Fuzzy Sets and Astrotheology

PAUL T E CUSACK\*

Independent Researcher, BSc E, DULE, 1641 Sandy Point Rd, Saint John, NB, Canada E2K 5E8, Canada

**\*Corresponding Author:** PAUL T E CUSACK, Independent Researcher, BSc E, DULE, 1641 Sandy Point Rd, Saint John, NB, Canada E2K 5E8, Canada

**Abstract:** In this paper, we make use of fuzzy set theory as applied to the Game of Life Physics. We will see that fuzzy sets in combination with the Game of Life Physics provides us with the solution to the problem of how DNA, the human Brain and the universe interact.

**Keywords:** Game of Life Physics; AT Math; Fuzzy Sets; Cosmology; DNA; Brain

### 1. INTRODUCTION

The Game of Life Physics provides us with rules:

There is only one rule in the Game of Life Physics. It is:

For each cell in the grid, count how many of its 8 neighbours are ON at the present instant. If the answer is exactly two, that cell stays in its present state (ON or OFF) in the next instant. If the answer is exactly three, the cell is ON in the next instant whatever its current state. Under all other conditions, the cell is OFF. [1]

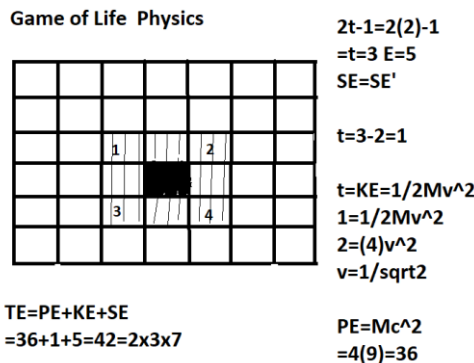


Figure1. Game of Life Physics Board

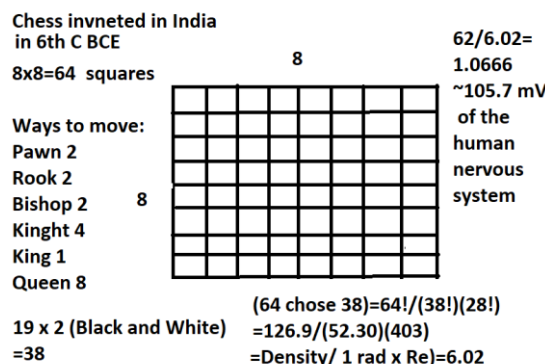


Figure2. Chess Board

The first part gives us a fuzzy set:

$$\{8 \text{ choose } 2\} = 8! / \{2!(6!)\} = 28 \Rightarrow 1 \text{ Or } 0$$

$$\{\{8 \text{ choose } 3\}\} = 1$$

$$28(1) + 56(1) = 84$$

$$28(0) + 56(1) = 56$$

$$56(0) = 0$$

{8 choose 2} = fuzzy Set 0 or 1

$$0! = 1!$$

$$1 = 1$$

True

$$28(0!) + 56(1) = 84$$

$$28(1) + 56(1) = 84$$

$$C(A) = \text{Core}(A) = A^1 = \{x \in U \mid m(x) = 1\} = \{28 \in 84 \mid m(x) = 1\} \quad 28/84 = 0.333 = 1/c$$

$$S(A) = \text{Supp}(A) = A^{>0} = \{x \in U \mid m(x) > 0\} = \{56 \in 84 \mid m(x) > 0\} \quad 56/84 = 0.666 = G$$

$$A^1 = \{28 \quad 56\}^1$$

$$A^{>0} = \{56 \quad 84\}$$

$$A^{>0} - A^1 = \{\{56 \quad 84\} - \{28 \quad 56\}\} = \{28 \quad 28\} = 28\{1 \quad 1\}$$

$$(U, m)^{>0} - (U, m)^1 = 28\{1 \quad 1\}$$

$$\{84 \quad 1\} - (84 \quad >0) = 28\{1 \quad 1\}$$

$$\{84 \quad -84, \quad 1 \rightarrow 0\} = 28\{1, 1\}$$

$$(1/28)\{0 \quad 1 < 0\} = \{1 \quad 1\}$$

$$\{0 \quad (1/28) < 0\} = \chi\{1 \quad 1\}$$

$$\{0, \quad 0.0357 < 0\} = \chi\{1 \quad 1\}$$

$$\chi(1) = 0 \quad \chi 0.0357 = 1$$

$$\chi = 0 \quad \chi = 1/0.0357 = 28$$

$$A = \{0 \quad 28\}$$

$$= 28\{0 \quad 1\}$$

$$= 28 I$$

{8 choose 2} = 28 = 1 Or 0 Fuzzy Set

$$C(A) = \text{Core}(A) = A^1 = \{x \in U \mid m(x) = 1\} = \{28 \in 84 \mid m(x) = 1\} \quad 28/84 = 0.333 = 1/c$$

$$S(A) = \text{Supp}(A) = A^{>0} = \{x \in U \mid m(x) > 0\} = \{56 \in 84 \mid m(x) > 0\} \quad 56/84 = 0.666 = G$$

$$A^1 = \{0, \quad 28\} = 28\{0, 1\} = 28L$$

$$A^{>0} = \{56, \quad 84\}^0 = G\{84 \quad 12\}$$

$$= G = 1/28 = 28G = 1$$

$$(28(0.666)) = 186.648 = 1/536$$

## 2. GOLDEN MEAN PARABOLA

$$t^2 - t - 1 = E$$

$$536^2 - 536 - 1 = 1.0507 \sim 105 \text{ mV (Human Nervous System)}$$

$$V = iR$$

$$105=(1/c)R$$

$$R=3.15$$

**Brain:**

We know  $y=mx+b=1/2t+2$

$$y=1/2t+2$$

$$=28+2=30$$

$$=10c$$

**t=30**

$$y=1/2t+2$$

$$=1/2(28)+2$$

$$=14+2=16$$

$$16^2+16-2=270$$

$$=10c^3$$

$$t=270; E=16$$

**t=3; E=5**

$$t=23 E=11$$

$$t=E^2+E-2$$

$$=11^2+11-2$$

$$=13$$

$$E=13^2+13-2$$

$$=180=\pi$$

$$E=t^2-t-1$$

$$24^2-24-1=551$$

$$t=1/E=1/181\sim 1/180=1/\pi$$

$$s=|E|t|\sin 60$$

$$=0.866$$

$$=t$$

**t=sin 60**

$$t=\sin \theta$$

$$\sin^{-1} 0.84)=57.14$$

$$57.14 \times 3.15/180=1 \text{ rad}=t \quad \theta=\pi/2$$

**Human DNA**

$$2.15 \times 1.67 \text{ Dalton} =\mathbf{36.55 \text{ gm}}$$

$$M=\text{Ln } t$$

$$M=\text{Ln } t$$

$$36.55=\text{Ln } t$$

$$t=747$$

$$E=1/t=0.1338\sim s$$

$$s=Et \sin 60$$

$$s=t$$

$$E=1/\sin 60$$

$$E=1/\sin 60^\circ$$

$$s=E \times t = |E| |t| \sin 60^\circ$$

$$s=(1/\sin 60^\circ)t(\sin 60^\circ)$$

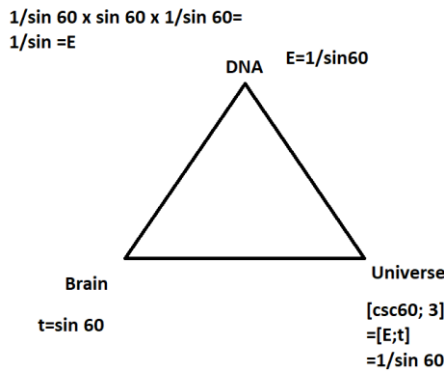
$$s=t$$

**Universe:**

Universal Parametric Equation:

$$[\csc 60^\circ; 3]=\{E, t\}$$

$$E=1/\sin 60^\circ=1/t=E$$



**3. CONCLUSION**

We see that fuzzy sets in combination with the Game of Life Physics provides us with the solution to the problem of how DNA, the human Brain and the universe interact.

**REFERENCES**

[1] Cusack, PTE., Game of Life Physics; Chess, and AT Math (Submitted)

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