

## **6 Mini Epics Regarding the Shape of the Universe, Einstein's Unified Field, Gravitation that Attracts and Repels, Evolution and Synthetic Biology, Travel that's Unlimited in Space or Time, plus 3-D Printers Ending the GFC**

I originally wrote this as my entries in ScriptMedical's contest (<http://www.scriptmedical.com/#/award/1>). The entries follow their rule of being exactly 100 words long (excluding the title). Then the entry requirement of having a postgraduate scientific or medical qualification started to bother me. I don't have one. So I did 4 things –

1) decided not to enter (there was no choice because as everyone knows, nobody really knows anything until they get a piece of paper saying they know something),

2) felt free of restrictive rules and able to modify my entries from 4 to a more satisfying 6 (with one entry having two parts – each of exactly 100 words),

3) changed the font from ScriptMedical's required Times New Roman to my preferred Arial,

and 4) submitted it to vixra.

So please enjoy these 6 “mini epics” regarding the shape of the universe, unified field theory, gravitation that attracts and repels, evolution and synthetic biology, travel that's unlimited in space or time, plus 3D printers ending the global financial crisis.

### **Poincare's Epic from Abstract Maths to Grandeur of Universe's Shape**

Poincare's conjecture says you cannot transform doughnuts into spheres without ripping them. This means subuniverses shaped like Figure-8 Klein Bottles (similar to doughnuts) gain rips called wormholes when transformed into a spherical universe. 2 Mobius loops are joined on their sides to form the Bottle, with binary digits forming clockwise and anticlockwise “currents” in the loops. Physical universe is created from bosons being composed of binary digits depicting  $\pi$ ,  $e$ ,  $\sqrt{2}$  etc.; and fermions given mass by bosons interacting in matter's “wave packets”. The digits encode infinite transcendental numbers into the cosmos as an infinite, eternal series of Klein bottles.

### **Einstein's Century-long Epic to Prove Unified Field Theory**

Let's slightly adapt a 1919 paper by Einstein to conclude gravitation actually forms particles of matter. If he was also correct about gravitation being the warping of space-time, it is logical that both gravitation and the warping of space-time that produces gravity would form elementary particles, their masses and the

forces (nuclear and electromagnetic) associated with those particles. Therefore, time is unified with the gravitational field, which produces electricity and magnetism. This overcomes the objection to Einstein's Unified Field which was put forth by England's Professor Penrose and says gravitation doesn't contain enough information about electromagnetism to determine the future.

### **Gravity's Epic Journey from Purely Attractive to Both Attracting and Repelling**

When gravity waves concentrate to form matter, gravity travels from external to matter: pushes against matter (repels). Repulsive gravity's dark energy\*. Successive waves re-radiate at unconcentrated strength from matter to external (opposite action to repelling wave) and attract. Imaginary numbers eliminate distinctions between space-time and a 5th dimension, permitting dark matter to be "ordinary" matter's scaffold.

\*Feeble gravity might push galaxy clusters as feeble sunlight propels solar sails. Gravity's boosted while within atoms because after forming matter, gravitational lensing concentrates successive waves  $10^{24}$  times (to  $10^{25}$ , weak nuclear force's strength). Then they're further magnified to electromagnetism's strength by matter's density.

### **The Epic of Including Physics in Darwin's Evolution – Part 1**

Conservation Laws say nothing's ever created, so changes must add to zero in "creation" of the universe. Hyperspace is described by imaginary numbers that give negative results when squared (adding negative hyperspace to space-time's positive gravity and matter, zero results). Entering hyperspace with its negative distance permits travel to past since travelling 700 lightyears is impossible, only travelling minus 700 lightyears is possible. Doing so instantly enables spaceships to arrive at a past time light could only reach by traversing negative distance for 7 centuries. Negative distance is normal in a universe whose foundation is mathematical, possessing positive and negative.

### **The Epic of Including Physics in Darwin's Evolution – Part 2**

Future humans could use Part 1's travel to the past, terraforming and ultra-advanced bioengineering. Subtracting future humans from origins of life makes it impossible for them to bioengineer amino acids to form plants and animals – though all species continue undergoing adaptations (evolving) through time. Time-travelling sounds like science fiction. But these concepts suggest a cycle (advances in technology "create" physical laws and the universe, whose people eventually develop technology employing binary digits that creates laws of physics). Similarly, they offer a way out of this dilemma: "We don't even know how to approach (the origin of the laws of physics)".

## **Unlimited Space-Time Travel**

An electrical-engineering experiment at Yale University demonstrated that, on silicon-chip and transistor- scales, light can attract and repel itself like electric charges or magnets. For 30 years, Einstein worked on his Unified Field Theory with the aim of uniting electromagnetism (light is one form of this) and gravitation. Achievement of this means the microscopic components of warps of space (gravity, according to General Relativity) between spaceships and stars could be attracted together, thereby eliminating distance (this is similar to traversing a wormhole between two folds in space). Eliminating distances in space-time means there's no "distance" to the past or future.

## **3-D Printers Terminate Money**

If you can oneday get absolutely anything you want from a 3D printer, why would you ever go to a store and pay money for it? People will still charge for printers. But someday, someone will put software on the Internet telling you how to print a 3D printer: causing salesmen to anticipate the end of money's usefulness. Tomorrow, 3D printers will be as common as computers are today. So no-one performing services – like builders, doctors, hairdressers, and so on – will need to charge money because they'll all have at least one printer at home which makes everything they want.

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