



Subject Seven

Astronomy and Cosmology

Two Creation Stories

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Two Creation Stories



- Bible (King James Version), Genesis 1
- The Last Question by Isaac Asimov, 1956
- Why Asimov Is Right
 - 26 Real Dimensional Symplectic Universe
 - Dark sentient matter/chakras lives forever in its own subspace
 - Compactified dimensions control forces in noncompactified dimensions to expand and contract the universe

King James Version, Bible, Genesis 1



1 In the beginning, God created the heavens and the earth. **2**

The earth was without form and void, and darkness was over the face of the deep. And the Spirit of God was hovering over

the face of the waters. **3** And God said, “Let there be light,”

and there was light. **4** And God saw that the light was good.

And God separated the light from the darkness. **5** God called

the light Day, and the darkness he called Night. And there was

evening and there was morning, the first day.

The Last Question

by Isaac Asimov, 1956 (1)

Source: Wikipedia



The story centers around Multivac, a self-adjusting and self-correcting computer. Multivac had been fed data for decades, assessing data and answering questions, allowing man to reach beyond the planetary confines of Earth. However, in the year 2061, Multivac began to understand deeper fundamentals of humanity. In each of the first six scenes, a different character presents the computer with the same question, how the threat to human existence posed by the *heat death of the universe* can be averted: "How can the net amount of *entropy* of the universe be massively decreased?" That is equivalent to asking, "Can the workings of the *second law of thermodynamics* (used in the story as the increase of the entropy of the universe) be reversed?" Multivac's only response after much "thinking" is "INSUFFICIENT DATA FOR MEANINGFUL ANSWER."

The Last Question

by Isaac Asimov, 1956 (2)

Source: Wikipedia



The story jumps forward in time into later eras of human and scientific development. These new eras highlight humanity's goals of searching for "more"; more space, more energy, more planets to inhabit once the current one becomes overcrowded. As humanity's imprint on the universe expands, computers have subsequently become more compact, as evidenced in the **"Microvac"**, a smaller and more advanced iteration of Multivac, noted in the second era of the story, which details humanity's inhabitation on "Planet X-23". In each era, someone decides to ask the ultimate "last question" regarding the reversal and decrease of entropy. Each time that Multivac's descendant is asked the question, it finds itself unable to solve the problem, and all it can answer is (linguistically increasingly- sophisticated) "THERE IS AS YET INSUFFICIENT DATA FOR A

MEANINGFUL ANSWER."

Two Creation Stories

The Last Question

by Isaac Asimov, 1956 (3)

Source: Wikipedia



- In the last scene, the god-like descendant of humanity, the unified mental process of over a trillion, trillion, trillion humans who have spread throughout the universe, watches the stars flicker out, one by one, as matter and energy end, and with them, space and time. Humanity asks AC ("Automatic Computer"), Multivac's ultimate descendant that exists in hyperspace beyond the bounds of gravity or time, the entropy question one last time, before the last of humanity merges with AC and disappears. AC is still unable to answer but continues to ponder the question even after space and time cease to exist. AC ultimately realizes that it has not yet combined all of its available data in every possible combination and so begins the arduous process of rearranging and combining every last bit of information that it has gained throughout the eons and through its fusion with humanity.

The Last Question

by Isaac Asimov, 1956 (4)

Source: Wikipedia



- Eventually AC discovers the answer—that the reversal of entropy is, in fact, possible—but has nobody to report it to, since the universe is already dead. It therefore decides to answer by demonstration. The story ends with AC's pronouncement:
- And AC said: "LET THERE BE LIGHT!" And there was light—\

Working Hypothesis



- Where are We At Today
 - Black hole in middle of each galaxy will merge with all stars eventually
 - Matter life exists in conjunction with dark matter life: human beings are born, live, and die, while they are joined with souls (seven chakras) of dark matter that live forever
- Where Are We Going
 - Eventually all stars will be consumed by black holes, and black holes will evaporate (Hawking radiation)
 - Only souls will remain in a separate dark matter subspace from matter
 - Any notion of time will cease: estimate this time span in trillions of years

Working Hypothesis: Where We Are Going



- Conformal mapping of the entire universe back into a primordial egg
- Space compartments will collapse containing dark matter
- Eventually space compartments are compacted so that they bounce apart from one another; the Big Bounce creates Dark Energy driving all apart
- As the Big Bounce occurs, a Higgs boson for matter and a Higgs boson for dark matter comes into existence
- As the space compartments inflate, at a point after the Big Bounce the Big Bang occurs, which was 13.8B years ago in this cycle of our universe

Why Asimov Is Right

26 Real Dimensional Symplectic Universe



26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict^2)	Space-Time 4 Dimensions $i * (x,y,z,ict) = (ix,iy,iz,-ct)$
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

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¹ Symplectic = real and imaginary pairs.

² $ict = \sqrt{-1} * \text{speed of light} * \text{time}$.

Why Asimov Is Right

26 Real Dimensional

Symplectic Universe



INFORMATION CONTROL HIERARCHY		
Matter		Dark Matter
Biology DNA / RNA, Bioelectricity Mortal		Biology Sentient or Quiescent Life Force Energy – Immortal
Chemistry Electronic Periodic Table of Elements		Chemistry Nuclear Geometry Branching Trees
Physics 10-String Subquarks & Bosons, Electrons		Physics 5-String Subquarks & Bosons (No Electrons)
INFORMATION Calabi-Yau Manifolds		

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