

Amazing Biblical Conservation Insights

- “His work has been finished since the creation of the world.” Heb. 4:4
 - “The Son is...sustaining all things by this powerful word.” Heb. 1:3
 - “In him all things hold together.” Col 1:17
 - “By the same word the present heavens and earth are reserved for fire ... the elements will be destroyed by fire.” 2 Pet 3:7-10
- The repulsive forces in a nucleus “should” make it explode (“gluons” are proposed as a solution)

Anthropic (toward people) Design

- Universe is “fine-tuned” to allow for life on earth
 - “An accuracy of one part in 10^{123} ...the precision needed to set the universe on its course.” Penrose in *The Emperor’s New Mind*, p.344
- Note: there are an estimated 10^{80} atoms in universe
- 10^{123} is a “1” followed by 123 “0”s
- $10^{10^{123}}$ is a “1” followed by 10^{123} “0”s
- “He who created the heavens, He is God; He who fashioned and made the earth, He founded it; He did not create it to be empty, but formed it to be inhabited.” Is. 45:18

More Fine-Tuning Quotes

- “If we nudge one of these constants just a few percent in one direction, stars burn out within a million years of their formation, and there is no time for evolution. If we nudge it a few percent in the other direction, then no elements heavier than helium form. No carbon, no life. Not even any chemistry. No complexity at all.” David Deutsch, Interviewed on *The Science Show: The Anthropic Universe*, 2/18/06.
- “The really amazing thing is not that life on Earth is balanced on a knife-edge, but that the entire universe is balanced on a knife-edge, and would be total chaos if any of the natural ‘constants’ were off even slightly... even if you dismiss man as a chance happening, the fact remains that the universe seems unreasonably suited to the existence of life – almost contrived – you might say a ‘put-up job.’” Paul Davies, Wiki-Quote, <http://en.wikiquote.org/wiki/Darwinism>

Second LAW and the Bible

- Entropy always increases (things become more disorganized)
 - Directed energy required for isolated entropy decrease
 - Living organisms are energy rich (by 0.27 eV/atom)
 - Evolution requires decrease in entropy
 - “Creation itself will be liberated from its bondage to decay.” Rom. 8:21
 - “In the beginning you laid the foundations ... they will perish ... they will all wear out like a garment.” Ps. 102:25-26
 - “They will all wear out like a garment” Heb 1:11
- Most scientists believe that the universe had a beginning. “before the beginning of time” 2Tim1:9

Conclusions

- There is no scientific explanation for mass/energy origin
- Fine-tuned nature of universe is empirically detectable
- The Bible is consistent with known science facts
- The Bible IS reliable and can be trusted – “All Scripture is God-breathed and is useful for teaching...” (2 Tim. 3:16).
- Christian faith is fact-based, not “blind” or “anti-logic” “You will know the truth, and the truth will set you free.” (Jn. 8:32)
- Our knowledge on any subject is limited – “Now we see but a poor reflection as in a mirror.” (1 Cor 13:12).
- Proven reliability increases confidence in predictions (Heaven, Hell, judgment, salvation, etc. are based on faith).
- The world is blind to many truths (Rom. 1:18-32, 1 Cor. 1:18-2:16) – “They exchanged the truth of God for a lie.”

Another Fine-Tuning Quote

- Nima Arkani-Hamed has attempted “to explain why things that appear to be finely, even heroically, tuned actually are not. One possibility, he said, is that our universe is not unique but is only part of a vast ‘landscape’ of universes. If there are huge numbers of universes, perhaps 10 to the 500th power by one estimate, then it is no great stretch to imagine that at least one of them—ours—wound up having extremely small amounts of observed vacuum energy and a weak force that operates on a scale much smaller than expected...” AAAS-4/11/05, “Harvard’s Nima Arkani-Hamed Ponders New Universes, Different Dimensions”

Fine-Tuned Nature of the Universe

- Physical constants for weak and strong nuclear forces, electromagnetic and gravitational forces, ratios of forces and electron/proton masses, and properties of neutrons are all critical, as are the expansion rate, mass, and density of the universe
- Earth’s orbit, tilt, rotation, magnetic field, atmosphere, and composition are life-critical
- Concerning the constants of physics: “The remarkable fact is that the values of these numbers seem to have been very finely adjusted to make possible the development of life.” Stephen Hawking, *A Brief History of Time*, 1988

Fine-Tuning Quotes

- “There is for me powerful evidence that there is something going on behind it all.... It seems as though somebody has fine-tuned nature’s numbers to make the Universe.... The impression of design is overwhelming.” Paul Davies, *The Cosmic Blueprint: New Discoveries in Nature’s Creative Ability To Order the Universe*, 1988, p.203
- Nobel laureate Steven Weinberg reflects on “how surprising it is that the laws of nature and the initial conditions of the universe should allow for the existence of beings who could observe it. Life as we know it would be impossible if any one of several physical quantities had slightly different values.” Steven Weinberg, “Life in the Quantum Universe,” *Articles: Scient. American*

More Quotes

- In an open system “entropy cannot decrease faster than it is exported through the [open] boundary, because the boundary integral there represents the rate that entropy is exported across the boundary.” Granville Sewell, “Can ‘ANYTHING’ Happen in an Open System?”, in *The Numerical Solution of Ordinary and Partial Differential Equations*, 2005, Appen D
- “The trouble is, proponents have not produced an iota of empirical evidence for strings. That’s why University of Toronto physicist Amanda Peet – a proponent – recently called string theory a ‘faith-based initiative’” *Reviews, Discover Magazine*, 12/1/05