

One of the most common arguments that religious people use against evolution and or the big bang is, that such complex systems could not have just arose spontaneously from nothing. They are correct that they did not arise from nothing but from other simpler high energy systems.

I will deal with the creationists argument first.

The creationist argument is: Nothing as complex as life could have spontaneously formed and evolved to its present state. (The Clock without a Clock maker argument). In their logic they are forming a super being from nothing, a no energy system!

The fallacy and hypocrisy of their argument is the failure to use the same "logic" on the existence of and all knowing all powerful "super being". What was the clock maker that made god; the god "clock maker".

They are being hypocritical if their logic isn't universal and consistent. It also shows their lack of understanding of statistical outliers.

There are 10^{23} stars in the universe, and about 10^{26} planets. Isn't more logical and a whole lot more probable that out of all these stars and planets and molecules that a single molecule of self replicating RNA formed to jump start life on this planet.

In 18mL of water (less than an ounce) there are 6.02×10^{23} molecules. This is as many molecules of water as there are stars in the universe. In the universe we are talking about an unimaginable number of molecules in which only a single event had to occur; the formation of a single molecule of self replicating RNA.

The Stanley-Miller Urey experiment has been done 1000's of times and proves that in the ancient reducing atmosphere of the earth many organic molecules were formed which includes nucleotides and other molecules necessary to form nucleic acids. Scientists have found self replicating molecules RNA and have reproduced self replicating molecules of RNA. Note, I said RNA not DNA. RNA was the original building block of life, not DNA. From studying transcription and translation, the processes that carry out the conversion of genetic information into protein synthesis. It also has been determined that RNA cannot only act as a molecule for storing genetic information but also has the ability to act as an enzyme. Enzymes are critical for carrying out metabolic reactions. Anyway, the just of this that it is much more probable for life to have spontaneously formed in the ancient earths environment than a all knowing all powerful super being just popped into existence and started creating all this.

Now for the big bang question. First of all, to us energy can just spontaneously pop into existence. One of the most famous experiment that puzzled scientists for years was based on diffraction grating experiment. A diffraction grating is used to show the wave nature of particles. When electromagnetic radiation or small particles like electrons are

passed through a small slit they will produce a diffraction grating pattern which shows that waves are interacting with each other by constructive interference or destructive interference. Constructive interference is where the waves of the same frequency and phase can add, increasing the bands intensity (Amplitude), destructive interference is where the waves are out of phase and destructively interfere to produce less intense bands or completely cancel each other to produce no bands of light. When lasers were invented in which the light is coherent where the light is all the same wavelength and in phase it became possible to fire a single photon through a diffraction grating and this was repeated over and over. The hypothesis was that there should just be a single bright intense band on the diffraction grating. However, to the surprise of physicists a traditional diffraction grating pattern began to form. How was this possible? In order for more than one band to form the single photons would have to interact with other photons, where were these photons coming from? As quantum mechanics progressed it was determined these photons were moving from different quantum states in quantum dimensions to interact with the photons in "our" quantum state and dimension. So in our "realm" it appears as if matter and energy is popping into existence.

Now for the big bang. The formation of the singularity that formed the big bang is like these photons "popping" into existence into our quantum "realm" but on a much larger scale. Again it's a statistical event. If you want an extreme outlier that has all of eternity to form.

As a side note the theoretical evidence that there is more than one universe is increasing and becoming a more important question. Another way "our" universe might have formed is via a event created by another universe akin to quantum tunnel forming to "our" universe from that universe. But that still begs the question where did that universe come from.

The jest of all this is, yes from our observational view point energy and or matter can just pop into existence. But it is much more ridiculous that a super being that is all knowing and all powerful was the FIRST thing to pop into existence. There is absolutely no evidence that this super being exists, yet there is a mountain of evidence for the big bang.

Besides I've all ready shown proofs that souls can't live outside a body, there is no carrier particle for prayer, and nothing can be omniscient (it is impossible for anything to know everything). So their beliefs are moot!

They must read this book or just shut the fuck up. But they won't because they are frightened to find out the truth and to admit they are wrong!
Big Bang: The Origin of the Universe by Simon Singh (Author)

So there is only one unanswerable question! Why does (energy=matter) exist?