



## **Life's Reason**

Ray Melnik 10/17/15

I binge watched over a half dozen shows on quantum physics, light wave-particle duality, atomic structure, and others. It is the best way I can think of to understand my life.

### **But now for what puzzles me.**

We all ask the questions, “Where did I come from? Why am I here?” Yet when we can finally get some good answers about the nature of reality, far too many people are willing to dismiss, ignore or even ridicule it. You asked. They’re telling you in the best way they know how; no stories. It is up to you to decide for yourself what it all means.

**In a nutshell...** Without the Big Bang there would be no hydrogen or helium. Without the super-gigantic stars formed from hydrogen in pockets of bent space-time, there would be no elements that could only be cooked in stars of tremendous temperatures. Without the process of them exploding there would be no seeding of all those elements that make up everything we know. Those elements formed our sun, our planet and everything on it. It made you. You are seeds from the stars. That is where you came from.

**And what we are...** We are made of elements like everything else. Basically, elements are constituents of matter distinguished by the number of protons in the nuclei; they are types of atoms. Atoms are composed of mostly empty space. If you removed all the empty space in the atoms of every human on earth, the entire human race would fit on a teaspoon.

**The even more bizarre...** At the level of the very small, the universe behaves in the most extraordinary ways. They are ways that are so beyond common sense that they were rejected by some of the greatest minds until the proof was so overwhelming it could no longer be ignored. Einstein was one, and he remarked "God does not play dice with the universe." It was Nobel Prize winner Bohr who later responded, "Stop telling God what to do." Bohr was right because in experiment after experiment, the strange quantum properties were proven over and over. Because it worked so well it led to the advancements in everything from lasers, to computers, microcircuits and so much of the great technology we have today. So if you accept all these amazing gifts you are accepting the strangeness of reality.

**So the strangeness...** Quantum entanglement or spooky action at a distance is one. That reality does not exist until it's measured is another. There is the wave-particle duality of light. All topics I will not attempt to explain, but feel free to explore them from reputable sources. Once you have even the most basic understanding, you will not look at reality the same way ever again.

All of these efforts help answer the question, "Where did I come from?" As to why you are here, only you can answer that.