

What Is Quantum Physics? by Joan Parisi Wilcox

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By Joan Parisi Wilcox, co-author of *Decoding the Human Body-Field: The New Science of Information as Medicine*

Quantum physics is a branch of science that appears to underlie many bioenergetic theories and technologies. Current research is showing that breakthroughs in our understanding of the energy and information of the body, and the human body-field, will probably come from the study of quantum biology. So just what is quantum physics?

Quantum physics deals with the fundamental energies and particles that make up all matter. These particles are discrete units of energy called "quanta," hence the name "quantum" physics.

Quantum physics involves the study of the realm of the very small, at the subatomic level, such as electrons, photons and quarks. Therefore, in terms of biology, it's operating at the below-cell level of the body.

Quantum physics is also the study of the forces that act on atomic and subatomic entities. There are four fundamental forces: gravity, electromagnetism, the strong force (binds particles in the atom's nucleus) and the weak force (responsible for radioactive/beta decay).

Quantum physics also studies the fields through which forces move. Examples of fields are the gravitational field and electromagnetic field. Although quantum deals with the scales of the very small, a field in some cases can extend throughout a large region of space so that its influence can be all-pervading. Quantum physics, therefore, applies in some aspects to cosmology, the study of the universe in general and of the stars and such.

Standard quantum physics has three primary areas of study:

- **Quantum mechanics:** The study of the structure and behavior of subatomic particles.
- **Quantum electrodynamics:** A field theory of the interaction primarily of electrons and the electromagnetic field; a theory of light (photons).
- **Quantum chromodynamics:** A theory of the strong force, and the interactions of quarks and gluons.

Quantum Physics Models

Quantum mechanics is the most verified theory in the history of modern science. But there is not one quantum "theory." There are many theories, each interpreting the same body of experimental data:

- **The Standard Model** (the most widely accepted theory of particles, fields and forces)
- **String Theory** (smallest units of matter are tiny vibrating strings of energy; there are multiple dimensions, perhaps 10 or more, but we cannot ever access them)
- **Many Worlds Theory** (every possibility of a choice or decision is realized, with each breaking off into an alternate dimension or world to which we have no access)
- **Super Symmetry Theory** (in addition to its anti-particle, every fundamental quantum particle also has a super-heavy partner particle; what we see in our world is a result of deep symmetries in the fabric of reality being broken)
- **Transactional Interpretation** (wave-dominant theory, where advanced and retarded waves reach across time and space to make a transaction, or have a "handshake" in time that imparts information and energy)

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- **Space Resonance Theory** (also known as the Wave Structure of Matter) (wave- dominant theory) (In waves and Out waves interact, and at the center of that interaction space resonance changes, imparting the characteristics we detect as individual particles/matter)

How Does Quantum Physics Relate to Bioenergetic Medicine?

As you move down the scale of matter, you move from cells to molecules to atoms. At this realm, the science of chemistry dominates biology. But if you keep going, you eventually see that chemistry, as the famed physicist Richard Feynman reminded us, is dependent on physics, as atoms are made of subatomic particles. At the deepest level, everything, including the body, is a quantum entity.

Biologists and physicists have told us that at the larger scale of the macroworld, it is impossible to measure or detect the quantum nature of matter, because the quantum “signature” of the entity is lost amid the “noise” of its interaction with the environment and such. But current research, on the frontiers of biology and science, are showing that this may not be true. Large molecules have been entangled (a quantum state), and researchers for decades have proposed theories of the quantum nature of many biological systems. But let’s explore the quantum world a bit more, to see what the challenges are for these researchers, according to the Standard Model of quantum mechanics. The quantum world is rife with paradoxes. It is a counterintuitive world, where what we expect according to the macroworld does not hold true for the microworld.

The Nature of the Quantum World

The quantum world is an abstract, mathematical world. It has been called a “shadow” world, because we can never know it directly, as through observation. When we measure a quantum system or entity, the act of measurement changes the system. So, many of the “truths” of the quantum world are very different from the “truths” of the classical, macroscopic world. Physicist Neils Bohr, one of the fathers of quantum mechanics, once said, “Those who are not shocked when they first come across quantum theory cannot possibly have understood it.”

Let’s explore a few of the major quantum paradoxes and apply them to the body-field.

Quantum Weirdness 1

Superposition of States

A quantum entity is said to be in every possible state at the same time, called a “superposition.” Every possibility for that system is held within the system, and it is only upon measurement that it “chooses” one state; the state that best conforms to the experimental conditions/context at that time. This paradox is at the heart of what is called The Copenhagen Interpretation of quantum mechanics.

The Copenhagen Interpretation

A quantum entity has both wave and particle attributes at the same time. It is detected as one or the other (a wave or a particle) according to the experiment that is being conducted. When its “wave function” is collapsed, it goes from being everything it can be to taking on specific characteristics. Somehow, quantum entities “know” what questions we are asking of them, and they appear in a way that best answers those questions.

It is becoming clear that in terms of the human **body-field** as a quantum structure, it too can only be probed indirectly. It cannot be seen or measured directly, and probing it changes it slightly. What’s more, because the human body-field is a dynamic network of energy and information, it is always changing, instant to instant, although it has a more stable, overarching template or pattern. It can be thought of as being in a kind of superposition of information, with the state of the entire body-field

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system and of its many subsystems (and its interaction with the environment and other people's fields) encoded in its overall template or pattern.

A bioenergetic scan or other type of measurement of the body-field captures a "snapshot" of certain parameters of the dynamic, every-changing body-field system at one moment in time and according to the state of the person being scanned at that time. Influences include not only the physical aspects of the person and his or her interaction with the environment and earth and cosmic energies, but also with emotions, beliefs, memories, diet, lifestyle, relationships, etc. All of this information is encoded in the client's body-field in its many, many layers. Each measurement extracts the information most relevant for that client at that time.

Quantum Weirdness 2

In classical, or Newtonian, physics, which rules our macroworld, if you could know all there is to know about the initial conditions of a dynamic system, you could determine its entire future with certainty. But the same is not true of the quantum realm. You can't know everything there is to know about a quantum particle with absolute certainty.

In the quantum realm, when you know about one aspect of a particle, you lose information about other aspects of it. This is called the Heisenberg Uncertainty Principle, and it says that probability rules the quantum realm. If you know the momentum (mass x velocity) of a particle, you can't know its location with absolute certainty. If you know where the particle is located, you can't know its momentum with certainty. It's not a matter of our ever developing better measurement techniques or the like. We can fundamentally never know at one time all there is to know about a quantum system with absolute certainty.



To use a silly analogy: When driving a "quantum car," if you look to see how fast you are going, you can't know exactly where you are, and if you know exactly where you are, you can't know your exact speed!

In terms of the body-field, you could say that the "uncertainty" of the body-field is due not only to inherent quantum features, but is also due to the complexity of environmental influences and the client's state of consciousness, which is always in flux. Thus, you can never know all there is to know about a quantum body-field in just one scan or measurement. You are capturing partial information at one moment in time.

Moreover, a bioenergetic scan must by its very nature be about that individual's dynamic body-field only. You cannot compare that person's field to anyone else's. There is no truly "optimal" body-field against which the client's field can be compared, although there can certainly be what we might call stable "baseline" measures. We have to remember that scale matters, with order emerging in more stable and identifiable holistic patterns as we move up the scale from the flux of the probabilistic subatomic microworld to the more orderly and fixed macroworld.

Quantum Weirdness 3

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The word “quanta” refers to “packets” of energy. Quantum entities can take on only specific allowable energies. When they “jump” from one level to another, they do not travel in between! They just disappear at one level of energy and appear at the next higher or lower allowable energy level.

In bioenergetic healing this kind of sudden holistic, system-wide “jump” can be seen in spontaneous remissions, where one day the body is riddled with cancer and the next there is no cancer to be detected. It is also linked to those “ah ha!” moments of epiphany when an emotional resistance is overcome and directly impacts a person’s physical state. Many bioenergetic remedies work according to this model as well. A “healing” effect has been identified at certain discrete levels or potencies of certain types of remedies, with no greater effect seen at other levels. The potencies of homeopathic remedies and the fixed number of drops with NES Infoceuticals are two examples.

Quantum Weirdness 4

The quantum realm is “nonlocal,” meaning that everything is connected. This quantum interconnectedness is called “**quantum entanglement**.” If two quantum entities were ever in contact, they are forever connected, no matter how far apart they may eventually be. In terms of information exchange, entangled particles act as a single system, not two separate entities. But no “signal” (that we know of) is being sent between them. The information is not exchanged by any known force or through any known field, but nevertheless it is shared or correlated instantaneously.

In bioenergetic medicine, many biotechnologies and remedies appear to be working through a mechanism, as yet not fully explained, that is entangling with the client’s body-field, so information can be exchanged and imparted. However, in the macroscopic world, “noise” appears to interfere with the measurement of the exchange, so research suggests that it is better for the client to be present for the scan or test. This may not apply to “psychic” or “intuitive” distance healing, and there are distance-healing studies that show effects above the level of change, but distance may matter and may need to be taken into consideration, as the following study shows

Psi effects (card guessing and healing at a distance) were shown to drop off significantly at the following increments of distance: drastic decline from 0.14 effect to .02 effect at 500 miles, smaller incremental drops at 2500, 3500, 4500 miles, with no discernible effect above chance at 7500 miles.
--From *Entangled Minds*, Dean Radin, PhD

A Revolution in the Making

To conclude this short overview, although academics dismiss claims that there is such a thing as a quantum body-field, research is mounting that not only is the body a quantum entity but that it is controlled or mediated via a larger information template—the body-field. The twenty-first century has been called the Century of Biology, as this is the area of inquiry in which the next great scientific revolution is most likely to occur, but it might better be called the Century of *Quantum* Biology.

Devices that identify the use of a specific quantum physics theory
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