

FINDINGS IN QUANTUM MECHANICS - A wakeup call to mankind

INTRODUCTION

Hopefully, this article will show that even the most mundane of human studies, if properly understood, contain evidence of the Truths that many sages have been sent to impart to mankind over the millennia.

But, these Truths cannot be grasped when our activities are not viewed within the context of the overarching Spiritual Laws of Creation.

These Spiritual Laws have their mundane manifestations upon which man has focused. Man has also enjoyed the material wellbeing that their application offers. However, in doing so, we forgot to look further to see how the laws with which we are quite familiar and enjoy **must** also manifest at higher levels of consciousness, according to another Law: **“As above so below”**

Had we always kept this fundamental law in our consciousness, one can only imagine what other great benefits mankind could have reaped in recognizing and learning to apply the “finer” manifestation of the physical laws which we now accept and respect? For example perhaps we would have come to appreciate that the scientific *Law of Action and Reaction*, is but a condensation of the *Law of Karma*, which, in itself, is but a condensation of the ultimate *Law of Love*.

Today, advances in the field of Quantum Mechanics is helping to offer the discerning person a scientific explanation to what many sages have tried to teach mankind regarding the Spiritual consequences of our behavior, on ourselves and our environment.

The Spiritual, as used here, is the higher environment (or state of consciousness). And our physical world is the one below, in accordance with the Law that **“As above so below”**.

Given the vast scope of the topic involved, we shall limit our focus to three key principles that have emerged from the field of Quantum Mechanics; namely:

- 1) Energy constitutes the building block of all of nature,
- 2) The “Observer effect” on quantum particles and
- 3) “Quantum entanglement”.

We shall endeavor to explain these principles in as simple terms as possible, and then try to show they are bringing us back to the Spiritual knowledge and awareness contained in some sacred teachings

To help our focus and yet maintain continuity, this article is split into 5 sections summarized as follows:

Section 1 - Starts with the Quantum Mechanics principle that the building block of nature is **Energy**. Next we introduce the “**Observer Effect**” and its implications for how we see, interpret and experience our environment.

Section 2 – Introduces the concept of “**Quantum Entanglement**” which states that regardless of their location in the universe, all quantum particles are always in instantaneous “communication”. This has implications for how everything is ultimately connected and affect each other.

Section 3 – Presents examples of developments and phenomena in Psycho-social studies that are now leading many in the formal science community to accept the possibility that there are more things that science is still unable, or may never be able, to explain.

Section 4 – Uses excerpts from the works of Abdrushin to show the deep Spiritual knowledge behind the findings that man is now stumbling upon, via the Quantum Mechanics and Psycho-social research.

Section 5 – Summarizes the inevitable conclusion that indeed man can influence the orbital path of the Earth, to lead it towards an up-swing or disaster. This is a common theme of all sacred teachings that stress the possibility of a cataclysmic end for the world, caused by man’s “sinful” ways.

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SECTION I – ENERGY, TYPES AND THEIR INTERACTION

Einstein’s famous equation $E = mc^2$ and the birth of nuclear weapons established conclusively that indeed energy is the building block of matter

So, what is energy?

According to the Merriam-Webster dictionary the definitions of energy include:

- Usable power (such as heat or electricity) including the resources to
- The resources to produce such power – *kinetic energy*
- Exertion of power : *effort invested*

Merriam-Webster also defines "energy" as "dynamic quality," providing "narrative energy" In this context, "narrative energy" refers to the dynamic quality that propels a story forward, engaging readers and maintaining their interest.

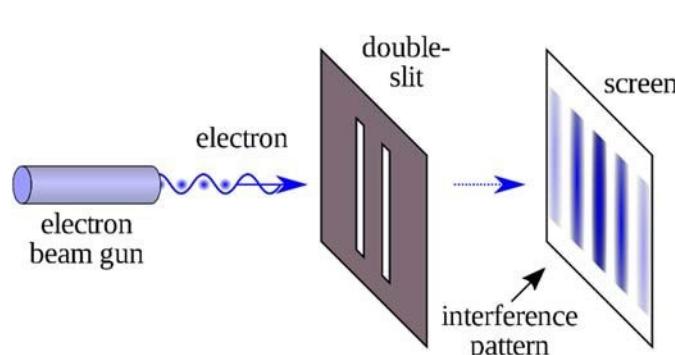
This qualitative attribute of energy brings to attention man's our capacity of acting or being active which is also a form or energy .i.e., *intellectual energy* and man's personality (which can also be described as our spiritual force) or *the energy flowing through us*

The foregoing definitions clearly show that energy is associated with inert as well as living organic systems. But, it also raises the question of whether the energy involved in inorganic and living organic systems are of different species. Or, is it the same energy, simply taking on different forms. In other words, is the essence of the energy that science describes as "electricity" the same as the energy associated with a person's thought processes, or the energy that radiates from a person, i.e. the Spiritual force that is commonly described as "personality or charm"?

An answer to this question is suggested in the results from a series of Quantum Mechanics experiments dubbed the **Observer Effect**¹ .

These findings conclude that “.....the experimenter's observations not only disturb what has to be measured. But, they also produce the measured results. In other words, the experimenter's presence and observation compels a quantum particle to assume a definite position, which is the observer then measured.”

In lay man's language, this suggests that an experimenter can directly, but unconsciously, influence, produce or cause the results that he or she measures!



One of the classic experiments demonstrating the observer effect is the double-slit experiment.

<https://www.scientificamerican.com/article/the-double-slit-experiment-even-weirder/>

In this experiment, a beam of particles, such as electrons or photons, is directed at a barrier with two closely spaced slits.

It was observed that the beam can behave as both particles and waves.

When the particles are not observed, and the experiment is set up to detect which slit a particle passes through, they exhibit an interference pattern on the screen behind the slits, suggesting wave-like behavior (the grey and blue streaks).

In lay terms, this means that the beam appears to flow simultaneously through the two slits to then appear as wave pattern on the screen.

However, when the observer is introduced to determine which slit the particle goes through, the interference pattern disappears, and the particles behave more like individual particles, (then only blue streaks appear).

In lay terms this means that when the person conducting the experiment is watching, it appears that the beams then go through the slits one at a time through either of the slits, which then produces the two distinct columns on the screen.

This change in behavior is attributed to the presence and the act of *measurement or observation*, and this curious result is explained as follows in Quantum Mechanics language:

“....when the particles are observed, their wave function collapses into a definite state, and the interference pattern is lost. The observer effect therefore highlights the fundamental role of observation in determining the behavior of quantum systems.”

Implied in this conclusion is that there exists a link between the presence/mind of the observer and the subatomic (quantum) particles, i.e. the object being observed!

This result raises the question: “how does the presence or the mind of the observer connect with the subatomic particle which are inert material?”

To answer this question, we need to take a look at the latest scientific thinking regarding thought. That is, “**What are thoughts?**” (Thoughts being the Conscious activity of the mind/brain/intellect.)

A response to this question, posted at the MIT School of Engineering² website, described thoughts as “*electrochemical reactions.....*” Meaning that “Thoughts”

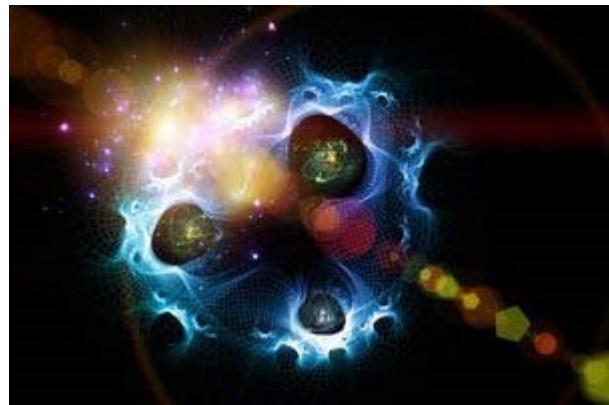
must be the released energy resulting from electro-chemical reactions occurring in the brain cells². Thus, “thoughts” are a form of energy emanating from a person.

Now, if thought emanations from an observer can interact with the energy field of a subatomic particle it means that Thought energy must be of the same, or related species, based on the Law of interaction among Homogeneous species. Thus explaining why man can produce energy that can interact with and affect living as well as inert particles and systems!

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SECTION II – ENERGIES INTERACT ACROSS DISTANCES

This phenomenon suggests that all subatomic particles remain connected, so that actions performed on one automatically affect the other, even when separated by great distances. Quantum Physics describes this as “*Quantum Entanglement*”



In 1964, physicist John Stewart Bell developed a workable theory, now called *Bell's Theorem*, whose results effectively proved “Quantum Entanglement”.

Today, the “bizarre behaviors” of quantum systems are being harnessed for use in a variety of real-world applications.³ For example in **Quantum Teleportation**: where Entanglement is a crucial component of a process by which the exact state of

² It is common knowledge, in the science community, that energy is involved in all chemical reactions. (1) At the start of a chemical reaction when it is absorbed and (2) At the end when Energy is released.

² <https://engineering.mit.edu/engage/ask-an-engineer/what-are-thoughts-made-of/>

³

<https://www.smithsonianmag.com/science-nature/five-practical-uses-spooky-quantum-mechanics-180953494/>

one particle can be transmitted to another particle at a distant location without any physical transfer of the particle itself.

This is already being applied to solutions in fields such as”

Quantum Simulation: to simulate complex quantum systems that are challenging to model using classical computers. For example it is the driving initiative in the emerging field of quantum machine learning (a subfield of artificial intelligence). The expectation is that it will lead to more intelligent machines that learn quickly and efficiently, through interacting and learning from with their environments⁴.

Quantum Cryptography: where it is being used to create secure communication channels. For example, if an eavesdropper tries to intercept entangled particles, the entanglement is disturbed, indicating a potential tampering. This forms the basis for quantum key distribution (QKD), a method for secure communication.

Now let us relate this information to the essence of this article. For that, let us focus on the application of quantum mechanics in the field of “Artificial Intelligence”, and examine the dire consequences for mankind if not properly considered.

Today, developments in the field of artificial intelligence (AI) is directed mostly at using “human reasoning” as a guide to building systems that will “provide better services, or to create better products”. This approach is described as **Neuromorphic Computing**

The other approach, described as **Autonomous Computing**, is very different in that the aim is to achieve a perfect “replica of the human mind”.

Neuromorphic Computing based on codification of human reasoning is ultimately subject to, and constrained by the algorithm used in their programming.

However, Autonomous Computing, whose potential consequences are depicted in popular sci-fi movies, will result in Cognitive Artificial Intelligent systems that mimic, and can be influenced directly by human thought processes. It is this that should be of concern, because such systems can, in time, learn to “*develop and exercise a will of their own*”.

⁴ <https://phys.org/news/2016-10-quantum-effects-artificial-intelligence.html#jCp>

Discussions about this type of artificial intelligence (CAI) have created a certain amount of unease with those who fear that AI will quickly evolve from being a beneficial servant to taking over the control of human society.

Even Stephen Hawking warned that “artificially intelligent machines could kill us because they could become so competent that they kill us by accident”. He suggests further that “The real risk with AI isn't malice but competence.”

“A super intelligent AI will be extremely good at accomplishing its goals, and if those goals aren't aligned with ours, we're in trouble. Hawking gives this illustrative scenario: *“You're probably not an evil ant-hater who steps on ants out of malice, but if you're in charge of a hydroelectric green energy project and there's an anthill in the region to be flooded, too bad for the ants”*.

He then warns: “Let's not place humanity in the position of those ants”.

We have taken the time to repeat Hawkins full warning because it shows clearly the results of unintended consequences, of which human history is quite replete.

Perhaps it is this intuitive sensing of the possibility of direct communication between man's thought energy and the machine's quantum particles that account for the scenes in sci-fi movies of rogue artificial intelligence machines going on murderous rampages.