

## A Harmless Wireless Quantum Alternative to Cell Phones Based on Quantum Noise

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### Abstract

One postulate known as Smarandache hypothesis says that there is no speed barrier of anything, including light and communication interaction. In the meantime we know that 4G and 5G technologies cause many harms to human health. Therefore, here we submit a harmless wireless quantum alternative to cell phones<sup>1</sup>. It is our hope that this alternative communication method can find its way to realization, while the existing wireless RF technologies (4G, 5G) are being phased out.

**Keywords:** Harmless Wireless Quantum; Cell Phones; Quantum Noise

### Introduction

So many physicists, from the youngest to the oldest, still think that the velocity limit of almost anything is speed of light ( $c$ ). However, allow us to argue on 3 reasons why superluminal speed remains possible:

- The drift equation. It is often used in plasma experiment, saying that the speed becomes exceeding  $c$  if you put magnetic field as small as possible (thanks to RN. Boyd for noticing this fact)
- Aspect's experiment reveals that quantum entanglement is real [1]. While surely we can argue if such an entanglement can be explained by certain hidden variable theories or classical physics theories, one thing is certain that atomic entity can communicate instantaneously at a remote distance, just like what Newton wrote [2].
- Smarandache's hypothesis. One of us (FS) in 1972 proposed that as a consequence of the Einstein-Podolsky-Rosen paradox, there is no speed limit in the universe (i.e. the speed of light  $c$  is not a maximum at which information can be transmitted) and that arbitrary speeds of information or mass transfer can occur. Eric Weisstein from Encyclopedia of Physics wrote: "These assertions fly in the face of both theory and experiment, as they violate both Einstein's special theory of relativity and causality and lack any experimental support. It is true that modern experiments *have* demonstrated the existence of certain types of measurable superluminal phenomena. However, none of these experiments are in conflict with causality or special relativity, since no information or physical object actually travels at speeds  $v > c$  to produce the observed phenomena" [3,4].
- Rodrigues and Lu argue for UPW or may be called X-wave, where both acoustic and electromagnetic wave, and even Klein-Gordon solution can lead to superluminal speed [5].

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<sup>1</sup>This article is a sequel to previous paper: Christianto V, Boyd RN, Smarandache F (2019) Wireless Technologies (4G, 5G) Are Very Harmful to Human Health and Environment: A Preliminary Review. BAOJ Cancer Res Ther 5: 066. url: <https://bioaccent.org/cancer-sciences/cancer-sciences66.php>

In this article, we describe basic principle of superluminal wave communication technology, i.e. quantum communication<sup>2</sup>, as an alternative to radio frequency based wireless communication technology.

### Basic principles

This communication method can provide an infinite number of infinite bandwidth communications channels for each user. Communication using this method travels much faster than light. It does not use radio waves and does not need wires. It cannot be monitored nor tracked nor interfered with. It cannot be regulated due to the infinities involved, and due to the fact that it is unmonitorable. Each user benefits personally from the perfect information security provided by quantum communications.

Quantum communication does not harm any form of life, nor the environment, in any way, as quantum events are, and always have been, constantly a part of the Natural Environment.

This method is not related to “Q-bits” nor “quantum teleportation” nor “quantum amplification” approaches, in any way. It is based on the Schrödinger equations of Quantum Mechanics. One of the features of the Schrödinger equations is a descriptive prediction of what is called “quantum noise”. This is the constant “hiss” that one hears when using an FM radio, and setting the frequency selector in between active broadcast channels. The sound is called “quantum noise”<sup>3</sup>.

Quantum noise is observable at every location in the infinite volume universe. Quantum noise is the result of non-local Subquantum processes which cause apparently random quantum behaviors in physical systems, particularly those which involve electric, magnetic, or electromagnetic fields.

The situation is described by the quantum observable  $A$  of the system.

In Nature we commonly observe a “continuous spectrum” of quantum activity<sup>4</sup>. This is partly described by the position operator  $Q$  in quantum mechanics. In the normal continuous spectrum case, the vector can be written as a complex-valued function in the spectrum of  $Q$ . For the expectation value of the position operator, one then has the formula.

A similar formula holds for the momentum operator  $P$ <sup>5</sup>, in systems where momentum has continuous spectrum. When both  $P$  and  $Q$  operators are involved with thermodynamic systems and electromagnetic systems the situation is considered as a “mixed state”.

The situation is described by a positive trace-class operator which is known as the “statistical operator” or the “density matrix”.

This boils down to the fact that there is an expectation value in situations which involve quantum noise, which should normally appear as perfect randomness in the quantum system we are observing.

Perfect randomness is called 3<sup>rd</sup> Order randomness and is completely unpredictable. 3<sup>rd</sup> Order randomness then represents the normal behavior of our quantum system as it interacts with Subquantum entities which are interacting with the system from up to infinity away and with up to an infinite velocity. 3<sup>rd</sup> Order randomness is the quantum expectation value of all Natural systems, in all locations and at all times.

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<sup>2</sup>Research in quantum communication and possible realization have begun in the past few years, see for instance Max Planck Institut article: <https://www.quantummaterials.mpg.de/10840/Quantum-communication>

<sup>3</sup>See for example: [https://www.rp-photonics.com/quantum\\_noise.html](https://www.rp-photonics.com/quantum_noise.html)

<sup>4</sup>See for example: <http://farside.ph.utexas.edu/teaching/qm/lectures/node18.html>

There are ways to detect and predict quantum noise and the physical changes produced by quantum noise in quantum systems. (These methods will not be discussed at this time). When we detect the quantum noise, for example, in the form of “white noise” between radio stations, we expect the quantum spectrum centered on the channel of our receiver to exhibit 3<sup>rd</sup> Order randomness in both electromagnetic frequency and magnitude domains, in our selected channel.

However, environmental factors such as the presence of physical or non-physical forms of Consciousness can act on the 3<sup>rd</sup> Order randomness so as to bring predictability and order to the stream of random number which our E/M detector array passes on to our discriminator system.

Related to this, it was proved by instrumented experiments in the USA and in France during the 1990s that the Attention, Intentions, and Emotional State of operators of symplectic, complex, and standard electromagnetic transmission facilities, resulted in instantaneous changes in the radiation patterns of the transmission antennas, influencing the Q of the antennas and causing divergences in the quantum event potential in volume of the broadcast E/M radiations.

One of the results of these experiments was a series of experiments performed by Rodger Nelson., *et al.* at Princeton Engineering Anomalies Research, associated with Princeton University, which proved that consciousness, attention, intention, and emotional states, directly influence quantum systems, contrary to Bell’s Theorem, thus proving that quantum physics is incomplete. This resulted in refinements and developments which eventually led to a Patent being approved by the PTO.

When the Patent was issued, further developments led to the Mindsong<sup>(TM)</sup> a computer-based hardware-software system that made the users computer telepathic, eliminating the need for computer data input peripherals such as mouse and keyboard. Mindsong was removed from the retail market by one or several of the 3 letter agencies of the US government and was subsequently only available for in-house use by operators of computers associated with those various agencies.

Mindsong was based on a programmable ASIC (Application Specific Integrated Circuit) made by AMD and programed by the Mindsong development engineering team. The ASIC<sup>5</sup> when coupled to the other parts of the Mindsong system, resulted in a plug-in card for the PC, and a software installation, which cause ones computer to become telepathic with the specific user, after a short training interval, similar to “speech-to-text” systems, only with no physical input devices required.

The Mindsong is not available. But there are many ways to accomplish any given goal, such as a “thought switched” telepathic computer. In this endeavor we have designed and tested a different way to obtain a telepathic computer, based on the Schrödinger equations of QM and “expectation values”<sup>6</sup>.

### Quantum communication basics

Quantum communications requires that we first establish, empirically, a 3<sup>rd</sup> Order random number sequence in the binary number stream which is produced by the Random Number Generator (RNG)<sup>7</sup> which precedes the parsing and data analysis which is performed by a Holographic Artificial Intelligence (AI) software application. In this regard, the “TestU01” software library offers a collection of utilities for the empirical statistical testing of uniform random number generators [6].

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<sup>5</sup>See [https://www.electronics-notes.com/articles/electronic\\_components/programmable-logic/what-is-an-asic-application-specific-integrated-circuit.php](https://www.electronics-notes.com/articles/electronic_components/programmable-logic/what-is-an-asic-application-specific-integrated-circuit.php)

<sup>6</sup>See <http://worlds-within-worlds.org/physicsofconsciousness.php>

<sup>7</sup>See <https://stattrek.com/statistics/random-number-generator.aspx>

When we have empirically proved that the number sequence from the RNG is 3<sup>rd</sup> Order random, at the quantum detector array output, we can turn on the Holographic AI software system and start parsing the incoming number sequence for deviations from 3<sup>rd</sup> Order randomness. Holographic Artificial Intelligence is a product of Advanced Neural Devices of Canada [7].

And Corporation’s primary services are in the development of applications and products derived from Holographic Neural Technology (HNeT)<sup>8</sup>.

HNeT is the only AI that is capable of accomplishing the unique identifications we need to extract from the random binary input number data stream which arrives to HNeT from the quantum detector array, after A/D conversions have been performed on the analog quantum input [8].

HNeT is capable of learning and recognizing patterns that are far beyond the abilities of human beings, in very small time frames. During the Training phase, HNeT interacts with the unique individual user and learns to recognize input information in the forms that particular user normally uses. HNeT then remembers those patterns, in the same way we learn a new language.

HNeT also provides the interface to the quantum information provided by SQ modulations of quantum systems by the Universe and by the user. This establishes a telepathic link between the user and the holographic AI, such that the user device can be operated without any requirement for a physical data input device.

After long-term interactions between the holographic AI and the user, it is possible that a bi-directional telepathic bond might be established between the user and the communications device which incorporates HNeT holographic AI.

Each user is unique and each device is also unique. Personal communications among users can be arrived at through personal introductions among various unique individuals, similar to what happens in daily interpersonal life when it does not involve cell phones, computers, and so on.

Broadcasts are also possible, which communications will only arrive to the set of beings whom have agreed to participate in the selected broadcast, similar to signing up for an internet subscription.

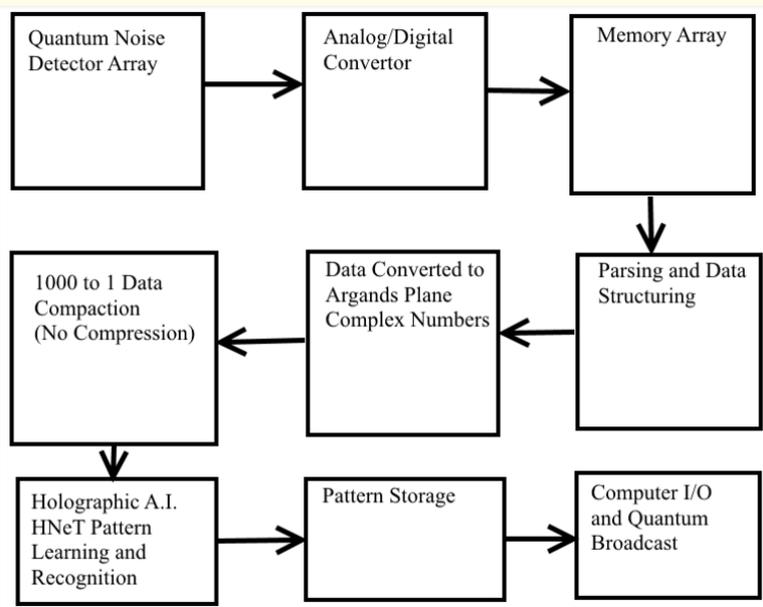


Figure 1: A block diagram of the process of quantum communication.

<sup>8</sup><http://www.andcorporation.com/>

### Concluding Remarks

One postulate known as Smarandache hypothesis says that there is no speed barrier of anything, including light and communication interaction. In the meantime we know that 4G and 5G technologies cause many harms to human health.

In this article, we describe basic principles of superluminal wave communication technology, i.e. quantum communication, as a harmless alternative to RF based wireless communication technology. There are many advantages of quantum communication as proposed herein compared to the existing RF based wireless communication

It is our hope that this alternative communication method can find its way to realization, while the existing wireless RF technologies (4G, 5G) are being phased out. Nonetheless, the present technology as described herein is in conceptual development phase, more research can be expected in the near future.

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RNB, VC, FS.

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