

Research article

The “LA” Theory in Quantum Physics

*Usama Khan, **Syed Waqas Hussain

Hazara University Mansehra, KKH Dhodial Mansehra, KPK Pakistan**Crossroads Software Technologies, Abbottabad, Khyber Pakhtunkhwa 22010*

ARTICLE INFO

Received: 15.05.2021

Accepted: 16.06.2021

Final Version: 25.07.2021

*Corresponding Author:

Email:

syeadbahi@gmail.com**ABSTRACT**

The concept of Quantum is “cognition” is a developing field which applies the numerical formalism of quantum theory to show cognitive marvels such as information handling by the brain, dialect, choice making, human memory, concepts and conceptual thinking, human judgment, and perception. This presumption stems from the thought that the brain is made up completely of material particles and areas, which all causal mechanisms critical to neuroscience can in this way be defined only in terms of properties of these components. In this way, terms having natural mentalist and or experiential substance such as ‘feeling’, ‘knowing’ and ‘effort’ are not included as basic causal components. This hypothetical limitation is motivated fundamentally by thoughts almost the common world that have been known to be on a very basic level erroneous for more than three-quarters of a century. Newtonian worldview, everything watched features a physical beginning and things associations can be clarified as mechanical (brain) "state" interactions. In any case, quantum flow analysts found that other causal mechanisms take an interest and construct "activity" substances. Although such concept of “La theory” $e-t \times Q_{pn}$ is source of capacity(Energy) which can be converted in literary sense is (medium of exchanging Ideas in modern terms IBB’s theory which is evidence, to describe the Sense of Free-will is source of Spirit (intellectual creativity) where as space (ceaseless Creativity) and time (Youm or Period or motion) are energetically linked in Cogitative to measure chatter talk (dialogue) by free-will with command of Five Sense in such “blinking eyes” is called free-will as source to hail opposite member sound i.e wave particles, within senses of intellectual sensory motion to notice the lower-spirit (sub-conscious) abstract meaning in dialogue, which literary means ‘probability’ (Qpn) as spark of Supremacy insight of godly spirit to sudden increase in awareness (Wisdom) for subject (listener) as a insight in company of Formative Talk. In dialogue the probability (Qpn) is Instinct, in abstract dialect for conscious i:e (CNs) for right to belief (Judge) abstract sense of right and wrong. As “abstract is filed of language” to call language as abstract in terms that, We propose that one reason is that, iconicity is hostile to reflection since famous forms are as well associated to particular contexts and sensory depictions.

Keywords: Mind, Consciousness, Brain, Neuroscience, Neuropsychology, Quantum, Meta psychology and quantum psychological, The Metaphysics of Theism.

Introduction

Neuroscience and neuropsychology of the wide utilize of valuable brain imaging innovation has revealed, at the observational level, a basic causal portion of facilitated consideration in cerebral working. The distinguishing proof of brain locales included in a wide variety of information dealing with capacities concerning learning, memory and distinctive sorts of image control has been the subject of wide and seriously examination. Neuroscientists consequently presently have sensibly great working information of the part of a variety of brain ranges within the handling of complex data. But, valuable as these experimental studies are, they give as it were the data for, not the reply to, the basic question of the causal relationship between the viewpoints of empirical studies that are depicted in psychological terms and those that are described in neuro-physiological terms. In most of the cases, examiners fundamentally expect that measurable-in-principle properties of the brain because it was factors required clarifying definitely the processing of the mentally described data that happens in neuropsychological experiments. This privileging of physically describable brain instruments as the center i:e CNs, and in fact last, explanatory vehicle for the processing of each kind of mentally described information, is the foundational presumption of about all advanced organically based cognitive neuroscience. Actually as spoken in case our attentions were entirely determined by neural schema or conditions. I accept that the line-up (Series or evens of mind) things we will go to as so call determined (fate). No object can capture our attention but by the will of neural machinery as neural machine attempts to translate, construct and prepare a flag to reach neural networking arrange to vocalize a sentence. It is getting to be increasingly clear, be that as it may, that there's at least one sort of data preparing and control that does not promptly loan itself to clarifications that acknowledge that all final causes are subsumed interior brain, or more for the foremost portion, central apprehensive framework rebellious. The cases in address are those in which the conscious act of willingly, altering the mode by which experiential data is prepared itself changes, in orderly ways, the cerebral mechanisms used. We come to stance on Scientific terms $L_a = e^{-t} \times Q_{pn}$ is based upon on human Psycho as 'esoteric' is in presence of 'Conscious' as medium of super-ego in advancing of theoretical dialect. For the appearance of Idea's in mind is 'paradisal-state' as Solutions in regards of Insight to radiation (electromagnetic waves) to call it 'tact' in wave particle for Consciousness as in Spirit of one's claim (in free-will). It's like a esoteric strategy of psycho in 'informative talk for because it could be a Universe idea in human psycho of Solo art for the positive invoking coach to physiological term in Logical studies in semantic tongue.

There's a developing recognition of the hypothetical significance of applying test paradigms that use coordinated mental exertion to deliver orderly and predictable changes in brain function, these will fully induced brain changes are by and large finished through preparing in, and the connected utilize of, cognitive reattribution and the attention re-contextualization of cognizant involvement. Besides, an accelerating number of considers within the neuro-imaging writing altogether bolster the proposal that, once more, with appropriate training and effort, individuals can efficiently modify neural circuitry related with a variety of mental and physical states that are frankly pathological, A recent review of this and the related neurological writing has coined the term 'self-directed neuro-plasticity' to serve as a common description of the guideline that focused preparing and effort can efficiently alter cerebral work in a predictable and potentially therapeutic way. Its define as the ability to do predict the abstract meaning of dialect in sense of 'probability' with Instinct to perceive within intellectual sensory motion in senior of energy i:e capability.

From a theoretical point of view, maybe the foremost important perspective of this above line of inquire about is the empirical back it gives for a new science-based way of conceptualizing the interface between mind or consciousness and brain. Secondly, to clarify the observable properties of huge meta-physical systems that depend delicately upon the practices of their nuclear constituents, the founders of modern physical theory were led to present expressly into the basic causal structure of material science certain critical choices made by human beings approximately how it will act. Third, inside this altered conceptual system of theory the choices are depicted in mentalistic as mental language. Fourth, phrasing of accurately this kind is basically necessary

for the plan and execution of the tests in which the information illustrating the center wonders of self-directed neuro-plasticity are obtained and portrayed. Fifth, the injection of mentally portrayed choices on the portion of human operators into the causal hypothetical structure can be achieved for tests in neuroscience by applying the same scientific rules that were created to account for the structure of marvels inside the domain of nuclear science.

Psychology Perspective

A person's experiential life may be a stream of Consciousness experiences. The person's experienced 'self' is portion of this stream of awareness: it isn't an extra thing that lies outside what the person is cognizant of. In James's words 'thought is itself the master-mind and psychology require not see beyond'. The experiential 'self' may be a gradually changing 'fringe' by part of the stream of consciousness. This part of the stream of consciousness gives an generally foundation cause for the central center of attention. If the rate at which these 'consents' occur is assumed to be increasable by cognizant mental exertion, at that point the causal efficacy of 'will or spirit' can be understood. Conscious exertion can be activation by the QZE I;e Zeno effect, override through strong mechanical strengths arising from handle subject 2 (La tact listener) as events and series are occurring in stream of consciousness and cause the layout for activity can be held in put longer than it would be on the off chance (probability) that the fast sequence(series i:e dialogue) come from handle 1 (speaker) where events were not occurring. This sustained presence of the template for activity can increment the probability that the intended action will occur (fate) after done within Informative talk.

Observations

Q) Does this quantum-physics-based concept of the origin of the causal efficacy of 'will' (Spirit and hope) accord with the findings of psychology?

Consider some passages from Psychology: the briefer course:

I have talked as on the off chance that our considerations were entirely decided by neural schema or conditions. I believe that the line-up of things we can attend too is so called determined (free-will). No object can catch our attention except by the will of neural machinery as neural machine attempts to translate, build and train a signal to reach neural networking order to vocalize a sentence. It often takes effort to keep the mind upon it and feed the cognitions accordingly. We feel that we can make more or less of the effort as we choose. If this feeling is not deceptive, if our effort has to be a Super-Ego force, being indeterminate one, then of course it contributes co-equally with the cerebral conditions to have the respective the consequences. Though it introduces no new idea yet it would deepen and prolong the stay of thoughts unconsciously with numerous unresolved ideas, which would fade more quickly, if superficially entertained. In the phase on "Will", in the section entitled 'Volitional effort is effort of intentions (Conscience)'. Thus we find that we reach the heart of our inquiry by Spirit (Consciousness) when we ask?, by I have talked as in the event that our considerations were entirely decided by neural schema or conditions. by what prepare is it that the thought (stream of consciousness) of any given activity comes to win stably within the mind (voluntary action)?. Keep it in notice Heart beating and Eye's blinking is in senior of "free-will" according to Scientific Philosophy.

And, later:

The essential achievement of the Will, in short is when it's most 'Free-willed'(Voluntarily) is to attend a difficult situation hold it on and fast before the mind exhibits even though brain itself is the powerhouse of all these voluntary plus involuntary systems. Anyhow, effort of attention is the significant phenomenon of Will.

Research Questions

Q) What is concept of abstract sense of $La=e-t \times Qp^n$ in dialect (language) in Informative talk future how quantum physics elaborate it in sense of ‘Capacity’ and probability in free-will i:e (eye blinking)?

Q) What is Free-will and Concept of Pandora's box in quantum physics and Quantum Physiologic?

In Newtonian worldview, everything observed has a physical origin and things connections can be explained as mechanical (brain) "state" interactions. Be that as it may, quantum dynamics researchers found that other causal mechanisms take part and develop "action" realities. In face of conscious-physics the concrete and moral deed need to neglect evil to bleed (Sub-consciousness) in relativity of Evil in station of conscience as for to become Traits or Spirits in light of Super-Ego in source of delight for sensation center school in Consciousness as art of realism i:e Struggle of fittest in stream of consciousness to called it i:e zeno effect. Actually according to the dynamics of the human brain (Cognitive) cannot be understood without the axiom of quantum dynamics that appears to separate the physical universe into two parts, each with a proper language human observer and her measuring instruments i:e Probability . Then there is the system the observer is acting upon the brain's behavior depends on atomic and subatomic processes (atomicity); some processes are explained by classical physics, and others are not. The brain's intuitive processing of any dilemma generates a have of parallel and mostly conflicting models for activity. As simultaneous handling of as it were two distinctive tasks increases reaction inactivity definitely, the nearby handling of a great number of options is ruled out by limited conventional neural capacity.

In evidence, I come on such stance, quantum concepts fit with existing experiential “clinical knowledge” (Positive invoke coach). The caveat is that quantum concepts may explain in a completely different way as how psychology impacts on the workings of consciousness. "Quantum cognition" is one of the recent theoretical recognition to calculate a probable presence of quantum effects in psychology (Bruza, Wang, and Busemeyer, 2015).

Q) What is Free-will and Concept of Pandora's box in quantum physics and Quantum Physiologic?

Furthermore “Consciousness” is based on and upon sensory and motor neurons -information which enables consciousness, our ability to consider ourselves and the outside World. Its seems in Quantum physic that its Energy (E) which is in four dimensions along $Rg = 2GM/c^2$ as “hope” , which back in times of Greek Era called Pandora's box for Quantum psycho that seems like trait (Source) of ‘leadership’ with positive invoking of school to build up space (ceaseless creative) and Time (Motion). In life of art (struggle/survival of fittest) the age of Consciousness is age of evolving spirits of “Intellect” (awareness) which literary means providing Insight for ‘instinct’ future in Quantum physic. On other hand, physiology calls Consciousness as Signal light (free-will or karma) to invoke mind as couch center or school of Spirit (wisdom with knowledge) as a resource of intellectually.

Scientific rigor and research method

Q) What is concept of abstract sense of $La=e-t \times Qp^n$ in dialect (language) in Informative talk future how quantum physics elaborate it in sense of ‘Capacity’ and probability in free-Will?

La Theory can be explained through abstract psychology in quantum physic because in metaphysic it can be elaborate through following pattern.

$La=e.t \times Qp^n$

$e.t \times Qp^n = \text{Energy}$

$\text{Energy} \times Qp = \text{Capacity}$

$\text{Matter} \times Qp = \text{Probability}$

$\text{Wave or impulse} \times Qp^n = \text{Zeno effect etc (instinct after stimulus)}$.

i.e

e.t=Space-time

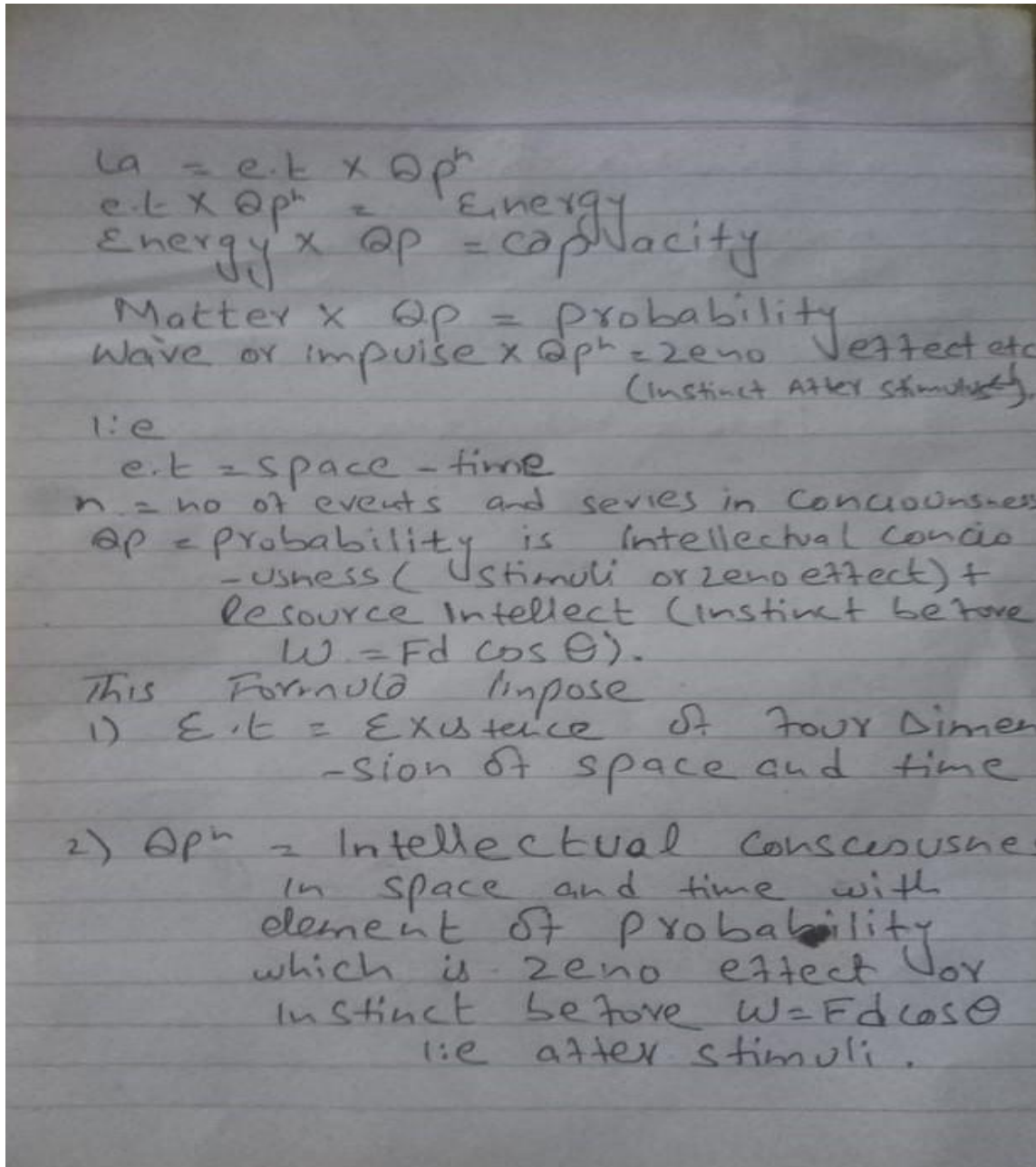
n=no of events and series in consciousness

Qp^n = probability' is Intellectual consciousness (Stimuli or Zeno effect) + Resource intellect (instinct before $W = fd \cos \theta$).

This Formula Impose:

E.t= Existence of Four Dimension of Space and time

Qp^n =Intellectual Consciousness in Space and time with element of 'probability' which is Zeno effect or instinct before $W = fd \cos \theta$ i.e after stimuli



$$L_a = \text{lin } e.t \times \bar{\Phi}^n$$

$n = \text{OP}$
Formula Impose

$e.t = \text{space-time}$

$\bar{\Phi} = \text{Intellectual consciousness}$

Structure of parameter
 $e.t = \text{Descriptive Intelligence}$

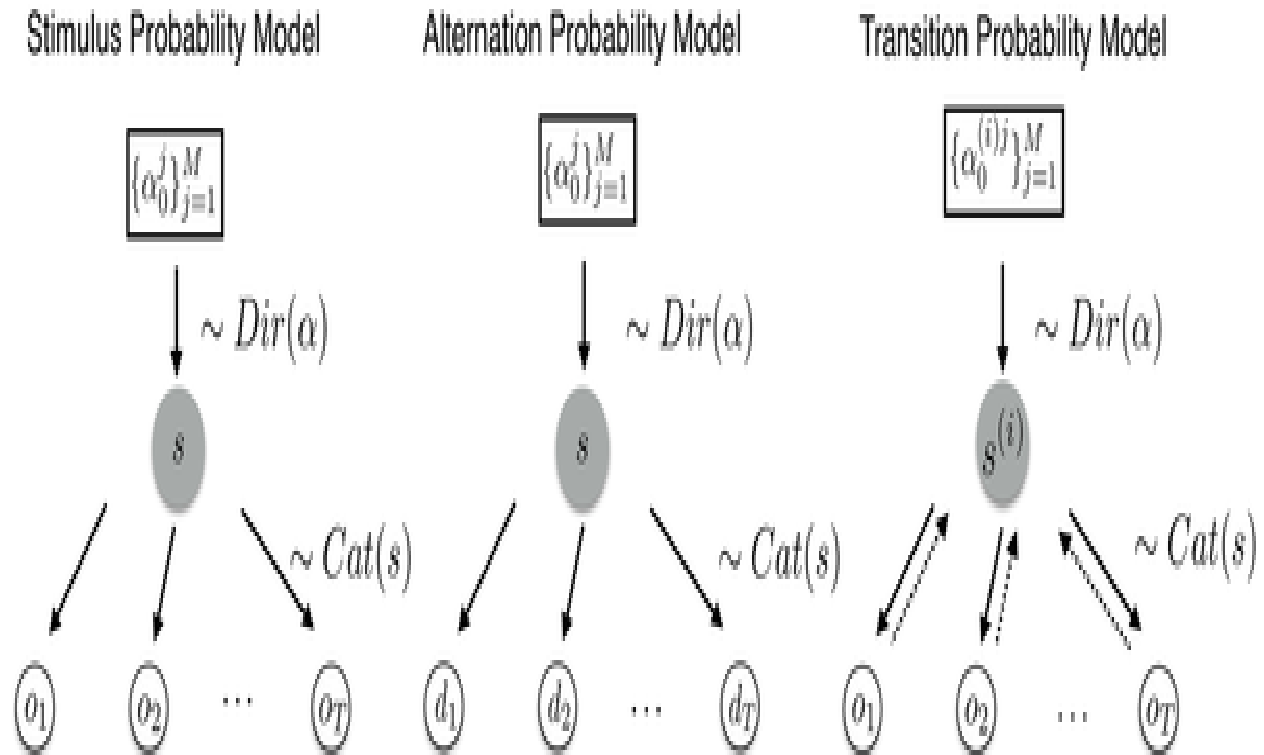
$\text{OP}^n = \text{Intellectual consciousness}$

$e.t \times \bar{\Phi} = \text{energy} \mid \text{energy} \times \bar{\Phi} =$
Intellectual consciousness
etc.

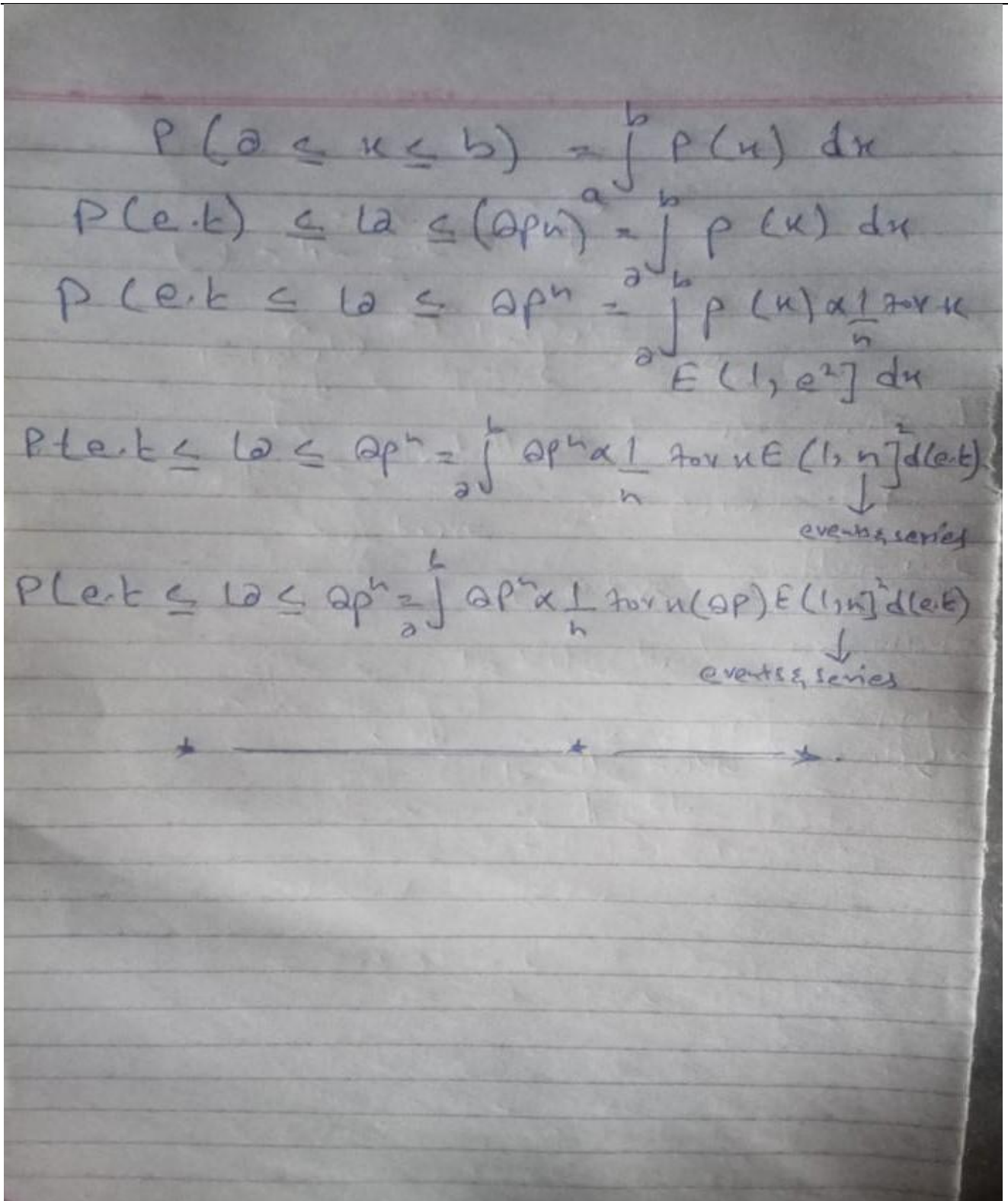
Theoretical frame-work for analysis

Probability graph of Stimuli

Qp= probability' is Intellectual consciousness (Stimuli) + Resource intellect (instinct after stimuli)



Probability theoretical of Quantum physic of Wave



In quantum dynamics the "quantum Zeno effect" (QZE); observational acts can hold a positive feedback (invoking positive coaching) in place over an extended time interval (four dimension i:e space (ceaseless creativity) and time (series and events) (Misra and Sudarshan, 1977).

In Quantum meta-physics and Quantum Psychological it seems as.

Q_p^n = Probability' as Intellectual consciousness (Stimuli) to compile subject for task in vale of '0' i.e (Optimistic as Zeno effect) + Resource intellect (instinct *or* $W = fd \cos \theta$ i.e after stimuli) it's value is '1' for the done of task in series and events of Consciousness of Fate in (La) in Informative Talk. For i.e external World. In spite of the fact that its demonstrated through that in concept of "La theory" e-t x Q_p^n is source of capacity(Energy) which can be changed over in scholarly sense is (medium of exchanging Ideas in advanced terms IBB,s hypothesis which is prove to depict the Sense of Free-will is source of Spirit (intellectual creativity) a space-time are vivaciously connected in Cogitative to degree chatter talk (exchange) by free-will with command of Five Sense in such "blinking eyes" is called free-will as source to accost opposite part sound i.e wave particles, with senses of mental sensory movement to hold corroded spirit (abstract meaning of sound) which scholarly implies 'instinct' as start for Supremacy insight as genuine spirit of sudden increase in awareness (Wisdom) for subject as locate in company of Formative Talk.

It define as Q_p^n as whole is 0 up to 1, in case of 0 the subject is in senior of stimuli, so body compile for target in Senior of Intellectual Consciousness i.e zeno effect, future 1 is resource of intellect i.e Instinct after stimuli as 'instance' for done of task for outer world in free-will of 'La' as fate .i.e $W = fd \cos \theta$ i.e after stimuli.

In "Quantum Zeno effect" (QZE); observational acts can hold a positive feedback(invoking positive coaching (i.e Stimuli) in place over an extended time interval discovered that electrons behave as if they rotate about an axis. They have spin In case two electrons turn (intuitive) in opposite directions, they may possess the same put and orbit. i.e Quale concept (nothingness)

Extensive literature research

Definition

It defines that ability to predict the abstract meaning of dialect in sense of 'probability' before instinct (stimulus) is perceive within intellectual sensory receptors in sphere of Energy (Capability) is called LA.

Explanation

As for $La = e.t \times Q_p^n$ is based upon probability (Intellectual consciousness or Stimuli) and capability (Energy) in aspect of abstract sense in wave or particle while when we are in Informative talk i-e chattering its showed that "wave or Instant" is medium of Probability as aspect of to measure abstract meaning of dialogue in Quantum-psycho. In quantum physic 'probability' is 'chances' future we can't define anything accuracy, there is always 'probability' we cannot able to find position and moment exactly, instantly .which literary meaning $a = Q_p^n$ is chances in semantic dialect rather than accuracy. It shows that Heisenberg's uncertainty principle contends that certain particle quantities, such as position, energy, and time, are unknown, except by probabilities, so accurate knowledge of complementarily pairs is impossible. In all such in quantum physiological, one can measure the location of an abstract sense of dialect, but not its momentum (energy or accuracy) at the same time. This commonly is explained with in semantics patter of School in dialectical therapy may be an approximation: e.g. discussing problems in order to overcome them, as theoretically in example, To say that there is a sharp line is to say that one cent can make a difference between being wealthy and being not wealthy, but the thought is at least prima facie, that's not what's going on," Thus only by looking inside the abstract meaning of context we can answer the question of whether the 'cent' is probabilities (perception) or Fleck of thought (non-perception) . meta-physical warn that the question is meaningless and without probability value until the observation is made; that the "state of the system" is indeterminate until the no fact of the matter, at which point the system "indeterminacy" to some state, only the probability of which can be calculated using quantum mechanics. Wave or particle duality or uncertainty does not, however, negate real existence but it warns against singular explanations in dialect.

Evidence call that as said, quantum theory clarifies that not any "thing" exists in a changeless state of specific characteristics Quantum theory changed scientific concepts such as capacity and probability, and parallel

advancements in classical brain research addressed the logical meaning of the terms "is a (perception) and "nothing" (a non-perception), particularly in semantics (**La=e-t x Qpⁿ in dialect**) Quantum material science offered a phenomenological cosmology. The scientific foundation of this undetermined reality in psychology has created a "cognitive science" that recognizes the impact of quantum impacts in cognitive phenomena (Broekaert, Basieva, Blasiak, and Pothos, 2017; Bruza, Wang, and Busemeyer, 2015) and constitutes, in a novel multidisciplinary way, a "science of consciousness".

Conclusion

The result showed that the about the concept of $La=e-t \times Qp^n$ is in two terms in Quantum psychology the “ $L=e-t$ ”(Energy) and $a=Qp^n$ (Probability) it’s in literary in “cognitive” as ‘zeno effect or instinct’ after stimuli, further it can be described as In quantum dynamics the "quantum Zeno effect" (QZE); observational acts can hold a positive feedback(invoking positive coaching) in place over an extended time interval (Misra and Sudarshan, 1977). We come to position on Logical terms $La=e-t \times Qp^n$ is based upon on human Psycho as ‘esoteric’ is in nearness of ‘Conscious’ as Sole of super-ego in progressing of hypothetical dialect . For the appearance of Idea’s in intellect is ‘paradisal-state’ as Solutions in respects of insight to radiation (wave-like properties) to call it ‘tact’ in wave particle from Consciousness to Spirit of one’s claim free-will i:e eye blinking, in detail to depict the Sense of Free-will is source of Soul (intellectual creativity) where space(ceaseless creativity) and time(Period) are vivaciously connected in Cogitative to degree chatter conversation (exchange) by free-will with command of Five Sense in such “blinking eyes” is called free-will as source to hail opposite part sound i.e wave particles, within senses of intellectual sensory motion to hold rusty spirit (abstract meaning of sound of lower soul or spirit) which literary means ‘instinct’ as spark for Supremacy insight as godly spirit of sudden increase in awareness (Wisdom) for subject(speaker) as insight for in company of Formative Talk which called to be La tact. It's like a esoteric strategy of psycho in ‘informative talk’ for because it could be a Universe idea in human psycho of Solo art for the positive invoking coach to physiological term in Logical studies in semantic quantum psyc school .

As ‘probability’ is chances or events (i:e n =no of events and series in consciousness) it can be described through Ego-psychology as part of ‘self-alliance’ as Quantum mechanics is the finest hypothesis, we have for describing the ‘world’ at the nuts-and-bolts level of atoms and subatomic particles. . A few of those researchers felt constrained to conclude that objectivity was in an illusion that requires awareness about active part in quantum theory. Anyhow, ‘Perception’ so called ‘stimulus’ is spark for ‘Space’ i:e Ceaseless Creativity which fits in “metaphysical to judge and evaluate in conscience in order to decide the personality of one’s from vale to “0” optimistic (Zeno effect) up-to “1” done of task (personality) or ambition in external World because life is in ‘motion’. In Quantum mechanics, Ralph Kronig discovered that electrons behave as if they rotate about an axis. They have "spin:’ If two electrons spin in opposite directions, they may occupy the same place and orbit. I:e Life (motion) and Death (Energy). Particles that originate from (are "born" in) i:e life the same atomic event have "entanglement": another form of instant communication. This condition may loosely be compared to psychological concepts such as "empathy" in the sense of unintentionally sharing a strong emotional link I:e IBB’s. However, ensnared particles are demonstrated to be related in a physical and supreme sense. Changes in one particle happen instantly to the other particle, whatever their distance in the universe. When entangled particles form part of separate neural systems , changes exerting identical influences may affect consciousness in different systems.

When considering quantum molecule communication, it is vital to note that the insignificant act of measuring particle rotation changes the system the particle belongs to (or the particle itself). Therefore, the probability of a specific result of measurement is predicted by Schrodinger's "wave function:’ i:e (instinct) There is now enough evidence of quantum probability, spin, immediacy, entanglement and local realism, quantization, and matter/energy equivalency, to explicitly recognize their direct bearing on neural and thus psychological functioning. In any case, not all the properties of any system can be measured at the same time and thus must be described by probabilities I:e Qp = probability’ as Intellectual consciousness (Stimuli) vale ‘0’+ Resource

intellect (instinct) value '1' done of task Human behavior also relates to a system, and psychology works in terms of probabilities and (very) seldom in terms of absolute values. Quantum mechanics applied to large systems should approximate their classic description, as per the correspondence principle. If this principle is bi-directional, the traditional knowledge of large systems such as brains implicates contains the quantum properties of its components, no matter small or indirect. In traditional information, these basic properties stay unexplained. The already experimentally established properties also apply to matters relating to consciousness. Negative consequences of quantum properties must be considered a possibility and relevant for a still hypothetical quantum psychopathology.

Dedicated to Lal Shahbaz Qalander **Hajwiri Society**

Reference

1. Dzhamalov, E.N. and Kon, M., 2018. On universality of classical probability with contextually labeled random variables. *Journal of Mathematical Psychology*, 85, pp.17-24.
2. Chiu, C.B., Sudarshan, E.C.G. and Misra, B., 1977. Time evolution of unstable quantum states and a resolution of Zeno's paradox. *Physical Review D*, 16(2), p.520.
3. Carhart-Harris, Robin L., David Erritzoe, Tim Williams, James M. Stone, Laurence J. Reed, Alessandro Colasanti, Robin J. Tyacke et al. "Neural correlates of the psychedelic state as determined by fMRI studies with psilocybin." *Proceedings of the National Academy of Sciences* 109, no. 6 (2012): 2138-2143.
4. Cupitt, Don. *Mysticism after modernity*. Blackwell Publishers, 1998.
5. Hick, J., 2004. *An interpretation of religion: Human responses to the transcendent*. Yale University Press.
6. Hood RW. The empirical study of mysticism: Retrospective and prospective. Taking a step back: Assessments of the psychology of religion. 1997:111-25.
7. Hubbard, Jamie, and Paul L. Swanson, eds. *Pruning the Bodhi tree: The storm over critical Buddhism*. Vol. 1. University of Hawaii Press, 1997.
8. Bouwmeester, D., Pan, J.W., Mattle, K., Eibl, M., Weinfurter, H. and Zeilinger, A., 1997. Experimental quantum teleportation. *Nature*, 390(6660), pp.575-579.
9. Sesiano, Jacques. *Books IV to VII of Diophantus' Arithmetica: in the Arabic Translation Attributed to Qustā ibn Lūqā*. Vol. 3. Springer Science & Business Media, 2012.
10. Broekaert, J., Basieva, I., Blasiak, P. and Pothos, E.M., 2017. Quantum-like dynamics applied to cognition: a consideration of available options. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences*, 375(2106), p.20160387.
11. Bruza, P.D., Wang, Z. and Busemeyer, J.R., 2015. Quantum cognition: a new theoretical approach to psychology. *Trends in cognitive sciences*, 19(7), pp.383-393.
12. Burgmans, S., M. P. J. van Boxtel, E. F. P. M. Vuurman, F. Smeets, E. H. B. M. Gronenschild, H. B. M. Uylings, and J. Jolles. "The Prevalence of Cortical Gray Matter Atrophy May Be Overestimated in the Healthy Aging Brain (Reply to Fjell et al.(2010) and Raz and Lindenberger (2010))." *Neuropsychology* 24, no. 2 (2010): 264-266.
13. Campagne, D.M., 2012. Organic and comorbid causes of depression: A first step. *Semergen*, 38(5), pp.301-311.
14. Elmore, Gerald T., ed. *Islamic Sainthood in the Fullness of Time: Ibn Al-'Arabī's Book of the Fabulous Gryphon*. Vol. 32. Brill, 1999.
15. Campagne, D.M., 2014. El terapeuta no nace, se hace. *Revista de la Asociación Española de Neuropsiquiatría*, 34(121), pp.75-95.
16. Chalmers, D.J., 1995. Facing up to the problem of consciousness. *Journal of consciousness studies*, 2(3), pp.200-219.
17. Edelman, S. (2008). *Computing the mind: How the mind really works*. Oxford University Press.

18. Edelman, S., & Shahbazi, R. (2012). Renewing the respect for similarity. *Frontiers in Computational Neuroscience*, 6, 45.
19. Kelly, I.E., Crabtree, A. and Marshall, P., Mystical Experience and Metaphysics.
20. Bakas, Tamilyn, Joan K. Austin, Kenechi F. Okonkwo, Rebecca R. Lewis, and Linda Chadwick. "Needs, concerns, strategies, and advice of stroke caregivers the first 6 months after discharge." *Journal of Neuroscience Nursing* 34, no. 5 (2002): 242.
21. Hubbard, J., & Swanson, P. L. (Eds.). (1997). *Pruning the Bodhi tree: The storm over critical Buddhism* (Vol. 1). University of Hawaii Press.
22. Foster, G. W. (1985). *The world was flooded with light: A mystical experience remembered*. University of Pittsburgh Press.
23. Baars, B.J. and Edelman, D.B., 2012. Consciousness, biology and quantum hypotheses. *Physics of life reviews*, 9(3), pp.285-294.
24. Bohr, Niels. "Essays 1958-1962 on atomic physics and human knowledge." (1963).
25. Boldrini, Maura, Camille A. Fulmore, Alexandria N. Tartt, Laika R. Simeon, Ina Pavlova, Verica Poposka, Gorazd B. Rosoklija et al. "Human hippocampal neurogenesis persists throughout aging." *Cell stem cell* 22, no. 4 (2018): 589-599.
26. Almond, Philip. "Mysticism and its contexts." *Sophia* 27, no. 1 (1988): 40-49.
27. Forman, Robert KC. "Pure consciousness events and mysticism." *Sophia* 25, no. 1 (1986): 49-58.
28. Smart, N., 1965. Interpretation and mystical experience. *Religious Studies*, 1(1), pp.75-87.
29. Boldrini, M., Fulmore, C.A., Tartt, A.N., Simeon, L.R., Pavlova, I., Poposka, V., Rosoklija, G.B., Stankov, A., Arango, V., Dwork, A.J. and Hen, R., 2018. Human hippocampal neurogenesis persists throughout aging. *Cell stem cell*, 22(4), pp.589-599.
30. Jorgensen, Richard A. "Epigenetics: biology's quantum mechanics." *Frontiers in plant science* 2 (2011): 10.
31. Lipton, B., 2005. The biology of belief: Unleashing the power of consciousness, matter, and miracles.[Kindle version]. Retrieved from Amazon. com.
32. Wigner, E.P., 1970. SYMMETRIES AND REFLECTIONS. SCIENTIFIC ESSAYS.
33. Wigner, Eugene P. "Remarks on the mind-body question." In *Philosophical reflections and syntheses*, pp. 247-260. Springer, Berlin, Heidelberg, 1995.
34. Mason, L., Peters, E., Williams, S.C. and Kumari, V., 2017. Brain connectivity changes occurring following cognitive behavioural therapy for psychosis predict long-term recovery. *Translational psychiatry*, 7(1), pp.e1001-e1001.
35. 7 Chodkiewicz, The Seal of the Saints, p. 73 note 49.
36. Zatserkovnyi, V. I., S. D. Kryachok, L. S. Mamontova, B. Popkov, and I. Chepkov. "Analysis of the accuracy of the orthophoto map building according to aerial photography results executed with UAV." In *Geoinformatics: Theoretical and Applied Aspects 2020*, vol. 2020, no. 1, pp. 1-5. European Association of Geoscientists & Engineers, 2020.
37. Misra, B. and Sudarshan, E.G., 1977. The Zeno's paradox in quantum theory. *Journal of Mathematical Physics*, 18(4), pp.756-763.
38. Morise, Jyoji, et al. "AMPA receptors in the synapse turnover by monomer diffusion." *Nature communications* 10.1 (2019): 1-18.

