e-mail:

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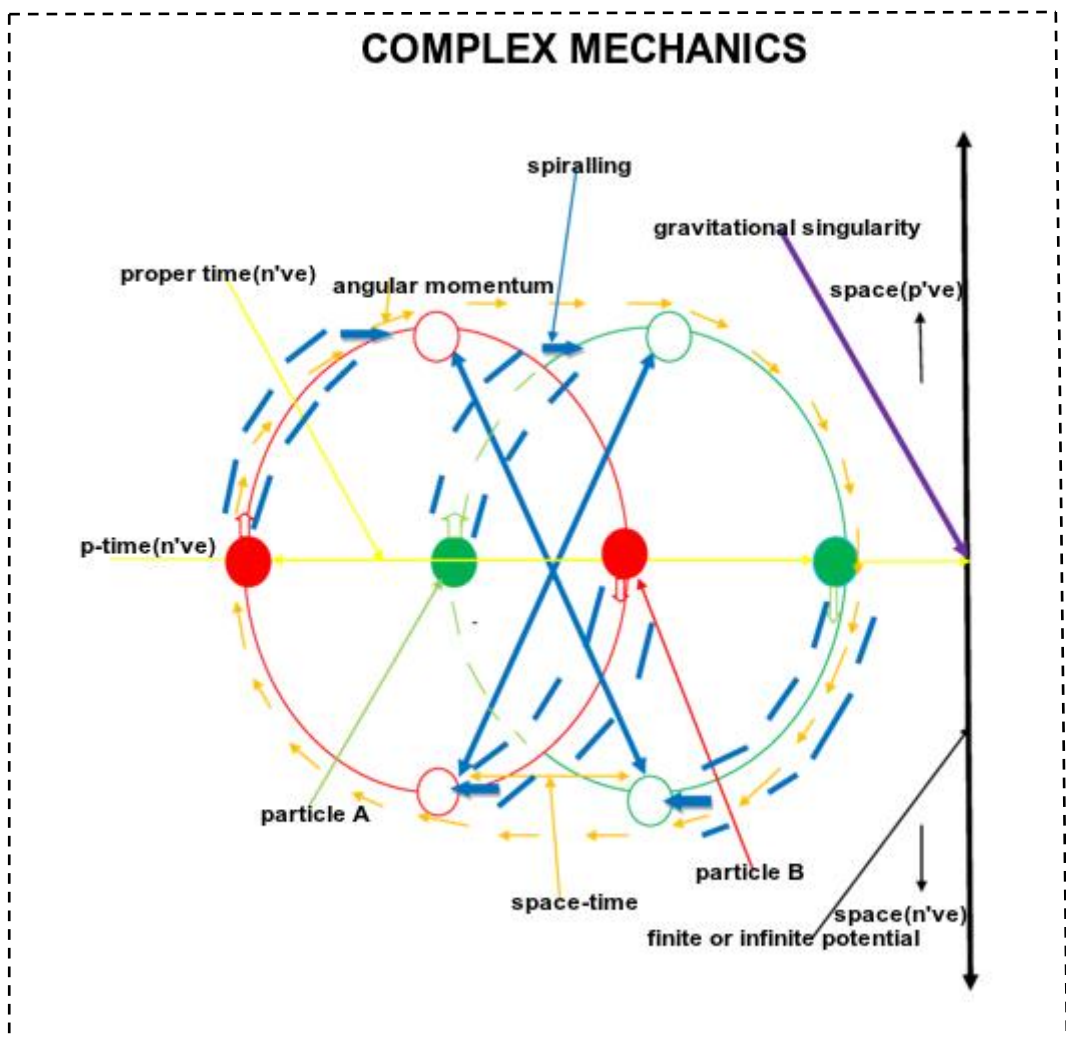# Q^2 MECHANICS (revised)

COMPLEX MECHANICS

Abstract

We demonstrate the theory of gravity through the dual nature of energy regulation and coordination (particle entanglement) and discus its complex mechanics in both local and non local dynamics based on the principle of Action-Reaction. We show how complex mechanics lead to gravitational vertical singularity, gravitational balance, gravitational pull and push, quantum gravity and consciousness. We prove that quantum mechanics, general relativity and consciousness are unified through complex mechanics based on non local waves (torsion waves).

Contents

1- INTRODUCTION

Complex mechanics is the science of the dual nature of energy regulation and coordination. Energy regulation is the change in size, position, quantity, quality, colour, etc of energy. Whereas energy coordination; is the least distance between two linked events.

diagram 1

diagram 1 depicts the complex dynamics of the universe in motion from which complex mechanics is derived.

2- COMPLEX MECHANICS AND THE FOUNDATION OF FORCE

The foundation of gravitational force in complex mechanics is postulated as below;

a)- an event maintains its state until it is confronted by another influence of energy regulation.

b)- When two or more time separated events influence each other's motion, inertia is created and force is inevitable.

c)- When two or more space-time separated events influence each other's motion, spiralling is created and angular momentum is inevitable.

d)- "The acceleration of a body (a) is parallel and directly proportional to the applied force on the body(F: applied force), is in the direction of the applied force, and is inversely proportional to the mass m of the body, **F =Ma.** ....(1)

e)- force is applied in opposite direction(Action-reaction).

3- ACTION-REACTION IN COMPLEX MECHANICS

Complex mechanics posits that; ∂ **(Action-reaction) = LERC**.....................(2)

Where; ∂ is change, A is Action, R is Reaction and LERC is the landscape of energy regulation and coordination.

An Action is the function of energy regulation and Reaction is the landscape of energy coordination. The principle of action – reaction posits that;

Explore all possible states of the changes in the reaction of energy coordination due to changes in the function of energy regulation, and establish any possible measurements of energy regulation due to its coordination. This brings us to the following physical facts inherent in complex mechanics as depicted in diagram 1.

a)- the world line of events follow the influence of energy regulation with the least opportunity cost of energy coordination. Such that;

$$\partial\left(\frac{\text{Å}}{\sqrt{(W\,(+)\,\text{or}\,(-))-}}\right)\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots (3)$$

Where; Å; is the quantum fluctuation constant equivalent to ($\hbar$ +or- $\hbar$) where $\hbar$ is the reduced plank constant.

W; is work as in (f*d).

(+); the metric signature of positive space.

(-); the metric signature of negative space.

-); is the metric signature of proper-time.

b)- angular momentum reduce to inertial frame through √MC and accelerating frames through √1/2MV.

$$\partial\left(\frac{A}{\sqrt{(MC) \text{ or } (\frac{1}{2}MV)-}}\right) \dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots (4)$$

c)- inertial frame reduce to potential energy and accelerating frame reduce to kinetic energy through proper time.

$$\partial\left(\frac{A}{\sqrt{(MC^2) \text{ or } (\frac{1}{2}MV^2)}}\right) \dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots (5)$$

d)- potential energy and kinetic energy reduce to torsion waves through space -time.

$$\partial\left(\frac{A}{\sqrt{MC^4}}\right) \dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots\dots (6)$$

4- COMPLEX MECHANICS AND GRAVITATIONAL VORTICLE SINGULARITY

e)- change in electrical charge produces gravitational electromagnetic field through the space - time of angular momentum and change in the eletro magnetic field reduces to gravitational singularity/infinite potential through the proper time of angular momentum . such that;

Gravitational Electrical magnetic field $= \partial\left(\frac{A}{\sqrt{MC^4}}\right) = MA^2Z^2$ ....(7)

where Z is space - time

Gravitational singularity $= \partial(MA^2Z^2) = MC^4$ ....(8)

f)- change in gravitational singularity produces vortical singularity through the space - time of kinetic energy over potential energy, and change in vortical singularity reduces to black hole through proper time. Such that;

$$\text{Vorticle singularity} = \partial(\mathbf{MC^4}) = MC^4 * \frac{\frac{1}{2}MV^2}{MC^2} \dots\dots\dots\dots\dots\dots\dots\dots,(9)$$

$$\text{Black hole} = \partial\left(MC^4 * \frac{\frac{1}{2}MV^2}{MC^2}\right) = \mathbf{1/2MC^4} \dots\dots\dots\dots\dots\dots\dots\dots\dots(10)$$

5- COMPLEX MECHANICS AND GRAVITATIONAL BALANCE

Gravity is balanced through the black hole. such that; change in the energy of black hole reduces to potential energy through kinetic energy and kinetic energy through potential energy. Such that;

$$\text{Kinetic energy} = \partial\,(1/2MC4) = \frac{\mathbf{1/2MC^4}}{\mathbf{MC^2}} = \mathbf{1/2MV^2} \dots\dots\dots\dots\dots\dots\dots.(11)$$

$$\text{And potential energy} = \partial\,(1/2MC4) = \frac{\mathbf{1/2MC^4}}{\mathbf{1/2MV^2}} = \mathbf{MC^2} \dots\dots\dots\dots\dots\dots(12)$$

6- COMPLEX MECHANICS AND GRAVITATIONAL AND PUSH

g)- potential energy produces gravitational push through space-time and kinetic energy produces gravitational pull through proper time. such that;

$$\text{gravity push } (G_{push}) = \partial\left(\frac{MC^2}{space\ time}\right) = Ma/d^{-2}\dots\dots\dots\dots\dots\dots(13)$$

where d is displacement.

gravity pull $(G_{pull}) = \partial\left(\dfrac{1/2MV^2}{proper\ time}\right) = Ma/d^2$ ....(14)

where d is displacement.

h)- gravitational push produces linear momentum through potential energy. such that

$$momentum = \dfrac{\dfrac{M\,a}{d^{-2}}}{MC^2} = MV$$ ....(15)

i)- change in linear momentum produces angular momentum through gravitational pull. such that

$$angular\ momentum = (\partial MV) = \dfrac{(MV)}{\dfrac{M\,a}{d^2}} = MV^2$$ ....(16)

7- COMPLEX MECHANICS AND QUANTUM GRAVITY

j)-change angular momentum(MV^2)reduce to phase transitions energy through energy coordination.
Such that;

$$\partial MV^2 = M * d^2/t^2 * t$$ ....(17)

(which is the phase transitions energy) where d is displacement.

k)-and phase transition energy ($M * d^2/t^2 * t$) reduce to massive displacement through energy coordination and regulation.
Such that;

$$\partial (M * d^2/t^2 * t) = Md$$ ....(18)

l)-massive displacement produces wave particle phenomena through space time.

Such that;

When massive displacement =1= proper-time, that is a particle.

When massive displacement less 1= 0 = proper-time, that is a wave.

When angular momentum = 1 or 0, that is a wave particle duality

m)-and wave particle phenomena reduce to quantum fluctuation through space-time

1 or 0 = $\mathbb{A}$ = quantum fluctuation constant equivalent to ($\hbar$ +or -$\hbar$) where $\hbar$ is the reduced plank constant

8- COMPLEX MECHANICS AND THE EMERGING HIERACHY OF CONSCIOUSNESS

Consciousness is a product of mind-body coordination and regulation in form of $E=MQ^2$. Where M is mass, Q^2 is the velocity of consciousness. Mental work resonates with physical work through an orchestrated hierarchy of mind-body energy regulation and coordination up on which the velocity of consciousness depends. This velocity is squared because of the positive and negative orchestration of consciousness.
Such that;

n)- The speed of thoughts reduce to the speed of senses through electromagnetic work ($E=MA^2 Z^2$) and electromagnetic work produce the speed of thoughts through mental complexity.

o) -The speed of senses reduce to the speed of recognition through gravitation work ($E= \partial(\mathbb{A}/\sqrt(W(+)or(-))-)$). And gravitation work produces the speed of sensing through electromagnetic waves.

p) -The speed of recognition reduce to novelty through gravitational singularity ($E=MC^4$). And gravitational singularity produces the speed of recognition through torsion waves.

Complex mechanics and the emerging hierarchy of consciousness (The orchestrated mind-body reduction and production).
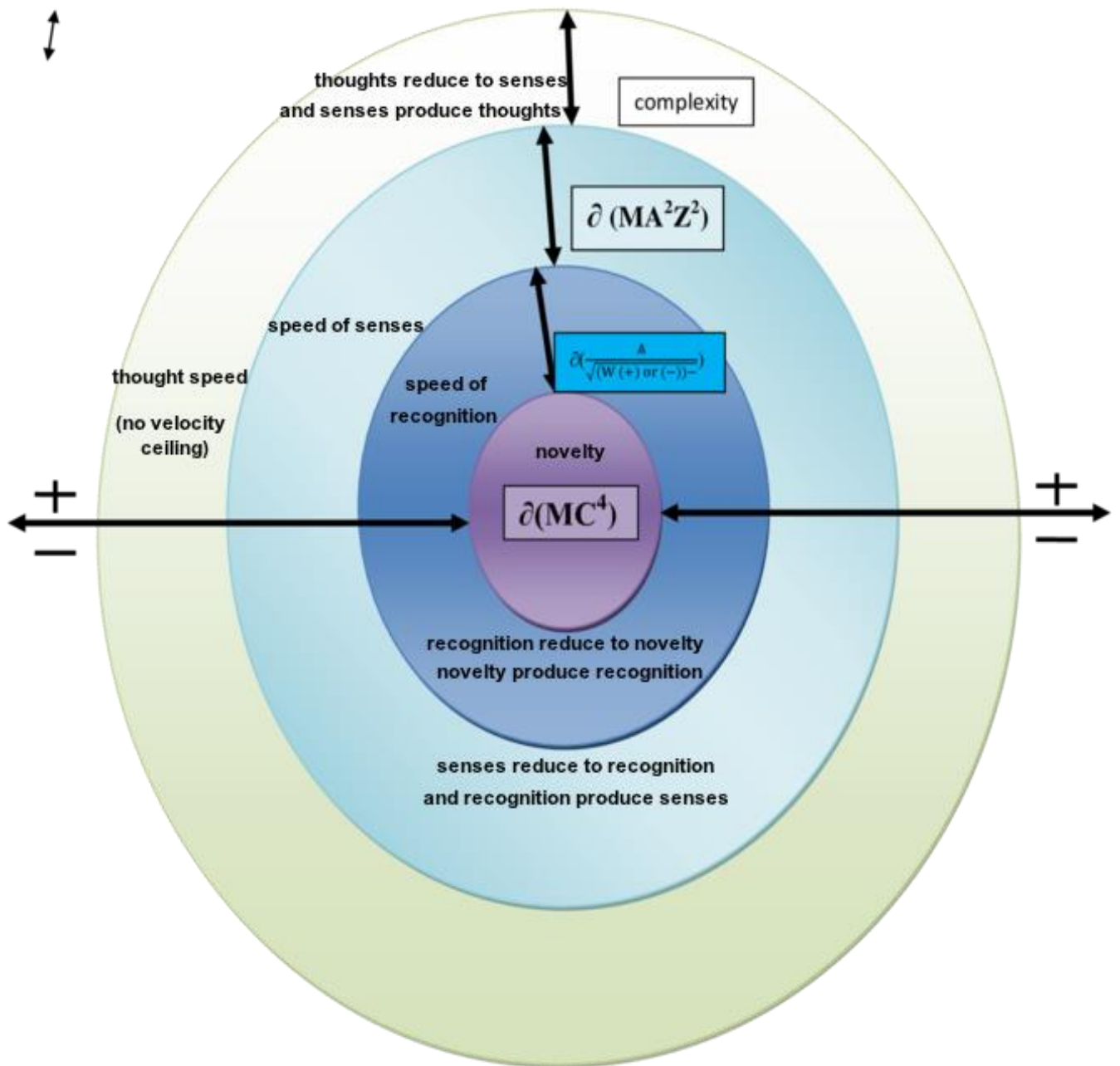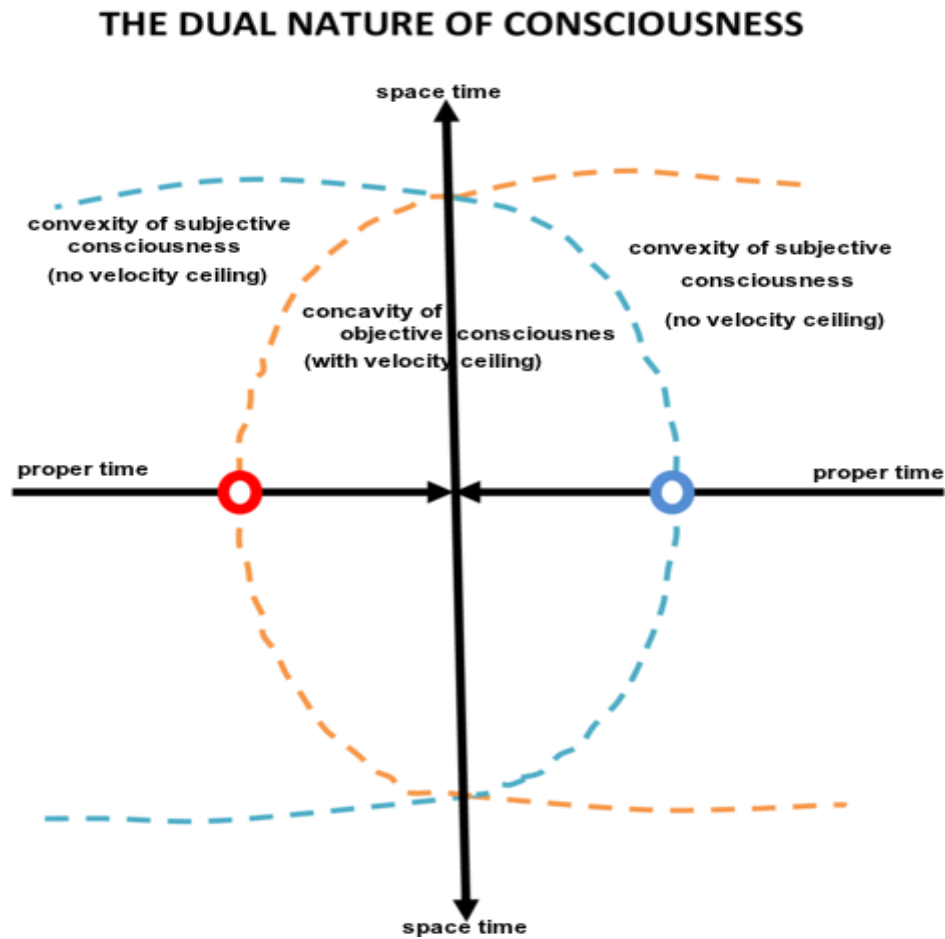
complexity

thoughts reduce to senses
and senses produce thoughts

$$\partial\,(MA^2Z^2)$$

speed of senses

thought speed

(no velocity
ceiling)

speed of
recognition

novelty

$$\partial\left(\frac{A}{\sqrt{(W\,(+)\,or\,(-))}-}\right)$$

$$\partial(MC^4)$$

+
−

+
−

recognition reduce to novelty
novelty produce recognition

senses reduce to recognition
and recognition produce senses

diagram 2

Diagram 2 depicts the complex mechanics of the orchestrated mind-body reduction and production. And it is apparent that the .

9- THE DUAL NATURE OF CONSCIOUSNESS

Consciousness can be categorised as both subjective consciousness (which has no velocity ceiling) and objective consciousness (with velocity ceiling).

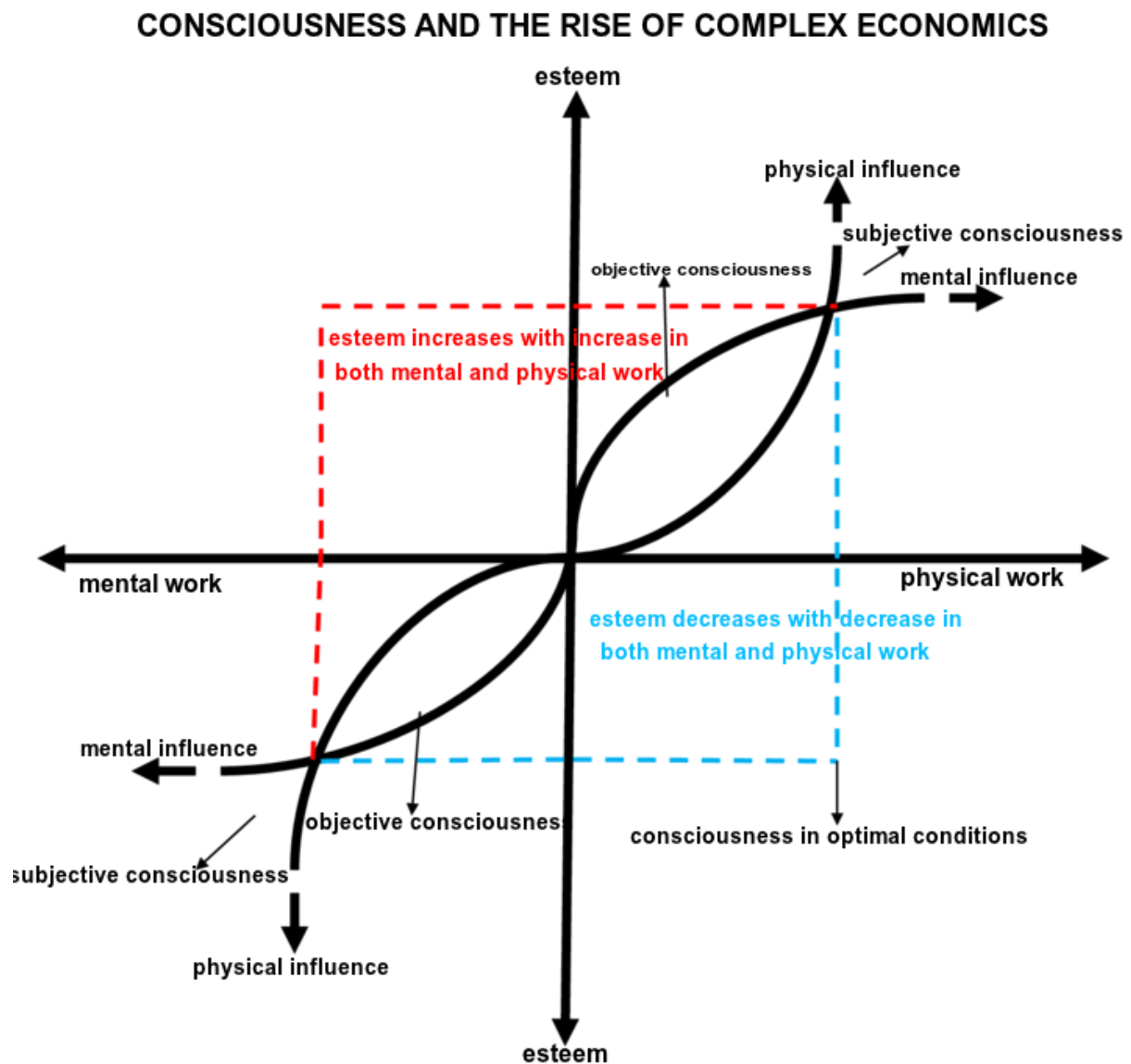## THE DUAL NATURE OF CONSCIOUSNESS

diagram 3

Diagram 3 depicts the dual nature of consciousness due to complex mechanics.

10- THE DUAL NATURE OF CONSCIOUSNESS AND THE RISE OF COMPLEX ECONOMICS

Complex economics studies the economic responsiveness of consciousness in form of physical and mental work due to its esteem. Such that; physical and mental work will increase with increase in the esteem of consciousness and vice versa

CONSCIOUSNESS AND THE RISE OF COMPLEX ECONOMICS

Diagram 4

Diagram 4 depicts the dual nature of consciousness in complex economics

11- CONCLUSION

"Everything is a function of a hierarchy of opposite pair's variability, whose action is directly proportional to their regulation and reaction that is inversely proportional to their coordination". It is this principle that is behind all accelerating and inertial frames of reference in general relativity, the wave particle duality of local quantum mechanics, the torsion waves of the non local interpretation of quantum mechanics and the subjective and objective consciousness of our mind – body energy coordination and regulation as demonstrated above.

12- PHYSICAL EVIDENCE AND ANIMATIONS OF COMPLEX DYNAMICS

[**1**].http://www.google.com/url?sa=i&rct=j&q=&esrc=s...

[**2**]http://www.latimes.com/science/sciencenow/la-sci-sn-video-maps-universe-20130613-story.html

[**3**]http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web...

[**4**]https://www.youtube.com/watch?v=NjSFR40SY58

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