

Across the demarcation of era: definition of natural electromagnetic dynamics (I)

I The ingenious connotation of relativity and electromagnetic dynamic energy: quality and qualitative leap

II Quantized electrodynamics and the interaction: the creativity of aesthetics in the grand unification— matter and universe, space, motion and time, biology and humanity

III Definition of natural electromagnetic dynamics

IV With grateful heart

HaiYing Shen^{1,2} * M.D., Ph.D.

Author Affiliations

¹ Department of Internal Medicine, Seoul National University Hospital, Seoul, Korea

² Division of Cardiology, Department of Internal Medicine, Korea University, Seoul, Korea

Corresponding author*: HaiYing Shen. Department of Internal Medicine, Seoul National University Hospital, 101, Daehak-ro, Jongno-gu, Seoul 03080, Korea. E-mail:shenhynd@163.com

Keywords

natural electromagnetic dynamics, electromagnetic dynamic energy; relativity, space, motion, time; matter, universe, biology; natural mathematic logic; aesthetics; diode, bipolar junction transistor, tunnel diode

This paper is the satellite letter to summary the series of paper ‘Action Potential, Bioenergy Resource, and the Principle of Natural Electromagnetic Dynamics: the Living Essence and Eternal Elegant-Beauty— from Biology to the Universe’, ‘The Eukaryotic Mechanism Directed by Bioelectricity: Creation and Enlightenment’, and ‘The Electromagnetic Spin Energy and the Electromagnetomathematic Differentiation on Phase Transition’, etc. [1-5 Shen].

I The ingenious connotation of relativity and electromagnetic dynamic energy: quality and qualitative leap

1, 2, 3, 4

5 The relativity principle of transistor

II Quantized electrodynamics and the interaction: the creativity of aesthetics in the grand unification— matter and universe, space, motion and time (in general sense), biology and humanity

III Definition of natural electromagnetic dynamics

1 Definition

Foundation (relativity, Maxwell's theory): the relativity that is the natural property of electromagnetic energy.

Principle (**special relativity**, the electromagnetic interaction in the electromagnetic dynamic system): the intercrossed duality of differentiation in electromagnetic field that fundamentally generates the unity in opposites.

Mechanism: the electromagnetic convection-exchange coupling operated in the relationship of counter-variance & intergrowth with the unity in opposites.

Trigger: the background energy that generates from the relativity of external field.

Product (the triplicate connotation of electromagnetic dynamic energy): the combination of energies of AC electricity, electromagnetic spin power and electromagnetic complex-signals.

Feature: the quantized energy level. The electrodynamic dynamic energy can profit from both entropy decrease and entropy increase.

Creation (**general relativity**, the electromagnetic interaction between electromagnetic dynamic systems): the space, motion and time of matter, biology and universe; aesthetics and humanity; natural logic.

IV With grateful heart

References

- [1] Shen H. Action potential, bioenergy resource, and the principle of natural electromagnetic dynamics: the living essence and eternal elegant-beauty— from biology to the universe (I). <http://vixra.org/abs/1711.0315>.
- [2] Shen H. The eukaryotic mechanism directed by bioelectricity: creation and enlightenment (I). <http://vixra.org/abs/1711.0316>.
- [3] Shen H. The dynamics of action potential: the bioelectromagnetized interaction created by cell biology (I). <http://vixra.org/abs/1711.0332>.
- [4] Shen H. The electromagnetic spin energy and the electromagnetomathematic differentiation on phase transition.
- [5] Shen H. The concept on cell electrophysiology (I). <http://vixra.org/abs/1711.0331>