

Chapter 1. Elementary particle pulsation principle.

- [1] Basic concept of the elementary particle pulsation principle.
- [2] The concepts of elementary particle pulsation principle. and the existing facts.
- [3] The grounds that came up with the idea of the hypothesis of the pulsation principle. Its history.
- [4] The first step to elementary particle pulsation principle birth.
- [5] I built the geometric model of the elementary particle pulsation principle.
- [6] Summary of the elementary particle pulsation principle.
- [7] The hypothesis of the elementary particle pulsation principle. (The original of the 1980 announcement)
- [8] An elementary particle is a lump of the energy. It is super-high-speed and pulsates. The reason.
- [9] The application of the elementary particle pulsation principle. The grounds of the idea.
- [10] The characteristic list of the elementary particle pulsation principle. (Timing distinction).
- [11] Figure of the quantum-mechanical uncertainty principle.
- [12] The idea of elementary pulsation principle apply the concepts.
- [13] Elementary pulsation principle concepts of theoretical physics puzzler. (1-33)

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- [1]. dark energy in 1998, validated by the discovery of the accelerating expansion of the universe.
- [2] Elementary particles pulsating principle and dark energy pulsating principle.
- [3] dark energy information.
- [4]... present a strong candidate for dark energy.
- [5]... dark energy exist in 4-dimensional space.
- [6]. mechanism of particle mass due to pulsation of the dark energy.
- [7]. dark energy pulsating show supersymmetry.
- [8] dark energy and the energy of the vacuum space equivalent mechanism.
- [9] dark energy and the Higgs field.
- [10] Elementary particles mass generation mechanism.

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- [1]. May be found in 4-dimensional space.
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- [3]. Discover kept looking for Einstein's four-dimensional space.
- [4]. Diagram of the 4-dimensional space.

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- [1] Elementary pulsation principle hypothesis and dark matter.
- [2] Candidates for dark matter and dark energy.
- [3]. A perfect candidate for dark matter.

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- [1] Experiments led to the origin. Quantum mechanics and probability interpretation.
- [2] Solve the mystery of the double-slit experiment.
- [3] double-slit experiment become a gravitational wave detection?
- [4] modern version ether experiments.
- [5] dark matter and dark energy candidates
- [6] double-slit experiment matter waves interpretation

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- [1]. Advanced "superstring theory"
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- [3]... continued looking for Einstein 4-dimensional space.
- [4]. elementary pulsation principle is the new geometric model of superstring theory.
- [5] Waveform pulse Ultra is a string.

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- The discrepancies to the probabilistic interpretation [3].
- Another stroke characteristics of particles [4].
- Geometric description of the concepts by pulsating particles [5].
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- [1]... to the goal of modern physics and the Super grand unified theory hypothesis.
- [2]. elementary pulsation principle announced in 1980, with the physical society of Japan.
- [3]... article published in 1980, has been kept on the cinii National Institute of Informatics, Japan physical society.
- [4]... on the Internet Encyclopaedia Wikipedia articles.
- [5]... **Nuclear forces, gravity, electromagnetic force.**
- [6]... unity based on elementary pulsation principle forces, gravity, electromagnetic force.
- [7]. structure of pulsating principle model for finite nuclei.
- [8]. it front and back of the same photon-photon and quantum gravity.

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- [1]. The current universe model.
- [2]. To deny the cosmic inflation model.
- [3]. the large-scale structure of the universe.

- [4]... microcosm was illustrated on the cover model.
- [5]. Models of the universe birth starting with the size of the universe, without exceeding the speed of light.
- [6]. by dark energy pulsating universe model.
- [7]. Cover model shows, many of the microcosm.
- [8]. to solve the mystery of cosmic large-scale structure voids (bubbles) in in the Galaxy.
- [9]. each pulsating voids (bubbles) is a microcosm.
- [10]. Solve the mystery of the cosmic microwave background radiation.

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- [1]. The geometry of the universe.
- [2]. Space no. same scale and structure of the vacuum space.
- [3]. All things geometric figure.
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- [1] The quantum gravity equation.
- [2] The grounds that zeroed the space fixed number of the quantum gravity equation.
- [3] The challenge to a quantum gravity equation.
- [4] Challenge to a quantum gravity equation, 2.
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- [6] I apply gravity equation to an elementary particle.
- [7] When a gravitation constant becomes zero, all things become the vacuum.
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- [1] With the mathematics difficult problem "proof of the Lehman expectation" biggest in history.
- [2] I challenge the difficult problem Lehman expectation that rejected the geniuses challenge for 150 years.
- [3] It is challenged the mystery of the prime number, a mathematics difficult problem biggest in history, proof of the Lehman expectation.
- [4] Neology of the Lehman expectation. A point of intersection that all 0 points are straight.
- [5] An elementary particle pulsation principle founds a door of the Lehman expected proof.

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- [7]「素粒子脈動原理」の仮説。(1980年発表の原文)
- [8]素粒子が超高速で脈動しているエネルギーの塊であると仮定する根拠。
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- [4] ネット上の百科辞典 Wikipediaに掲載された記事
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