

Title

Fundamental Particle Pulsation Principle-Theoretical Physics Hypothesis

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Abstract

This hypothesis suggests the elucidation of a number of fundamental mysteries in modern physics.

The experiment of double slit is the starting point of quantum mechanics and Interpretation of wave function ψ .

Keyword

4 Dimensional Spaces, Fusion of Gravity and the Electromagnetic Power, New Geometric Model of Superstring Theory, Dark Energy, Dark Matter, Space Fixed Number Λ , Offsetting of the Plus or Minus Energy by the Super-Symmetry, The Size is Given to a Fundamental Particle, Proof of Riemann Expectation.

I. INTRODUCTION

Relativism and quantum mechanics are a basis of present-day physics. This hypothesis returns quantum mechanics to real physics from physics of a probability and I tried fusion of relativism and quantum mechanics. By quantum mechanics a fundamental particle is a particle and is a wave at the same time and probabilistic interpretation of quantum mechanics was born. This hypothesis denies the same time. That isn't simultaneous. A fundamental particle is repeating a change in a particle and a wave at superspeed. I am thinking this is the variable from which hid.

II. HYPOTHESIS TO THEORETICAL PHYSICS "FUNDAMENTAL PARTICLE PULSATION PRINCIPLE" (PULSATING HYPOTHESIS)

Universe is filled in the very thin dark energy. The energy is making repulsive force act on each other. The average density of the dark energy is set as an energy zero. The energy zero is set as an vacuum. A difference in energy densities from the average density of the dark energy (vacuum) will be fluctuation of the mass. A change in energy densities will be fluctuation of the mass. A fundamental particle is an aggregate of the energy. An aggregate of the energy is repeating an explosion and reduction in Planck time. (Fundamental particle pulsation). An aggregate of the energy is repeating an explosion and a wave in Planck time. An aggregate of the energy is repeating a particle and a wave in Planck time.

In the energy corrugated figure which showed a change in an energy densities. The average density of the dark energy is set as an energy zero. That was illustrated as a horizon. A horizon was illustrated as the three dimensional space we recognize. The top and the bottom of a horizon is set as the 4-dimensional space. A change in energy densities of the dark energy is set as a Material wave. The wave is spread by speed of light.

Hypothesis to theoretical physics Fundamental particle pulsation principle

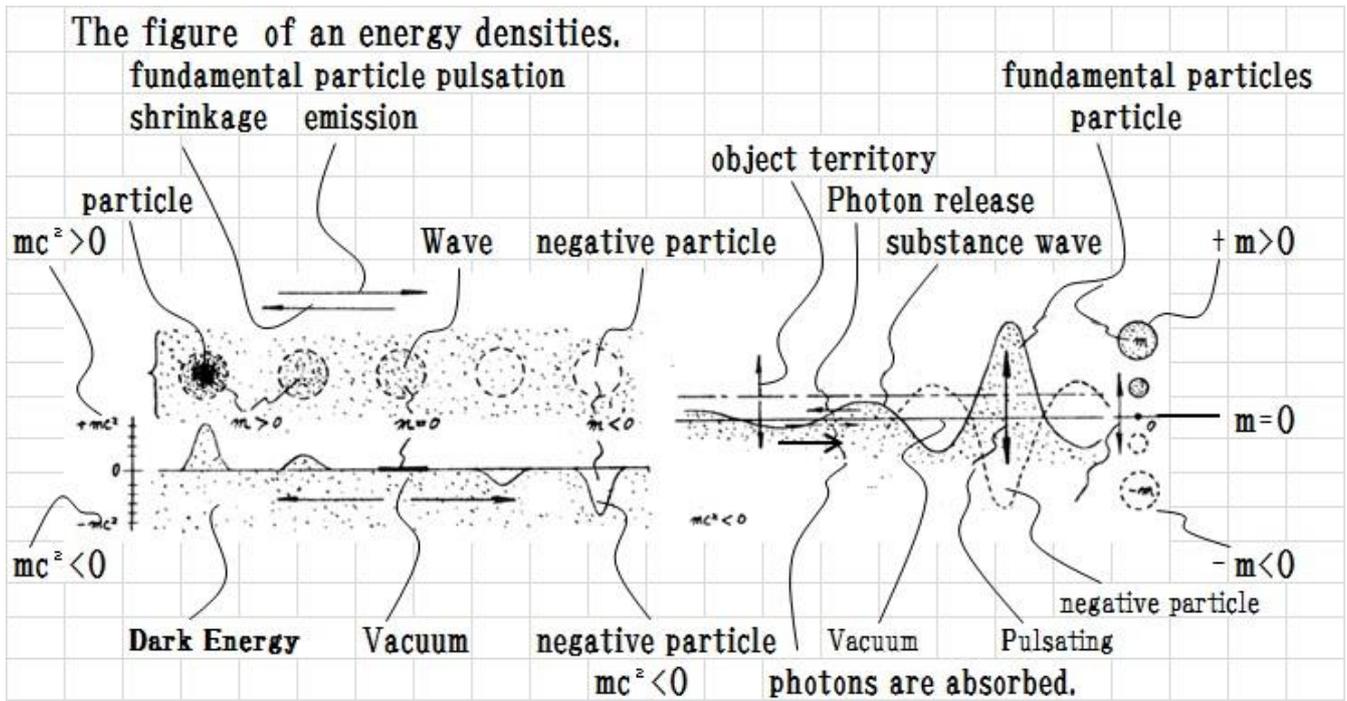


Figure 1. Conceptual diagram of energy waveform of pulsating principle

Figure 2. Figure 2. A conceptual diagram.

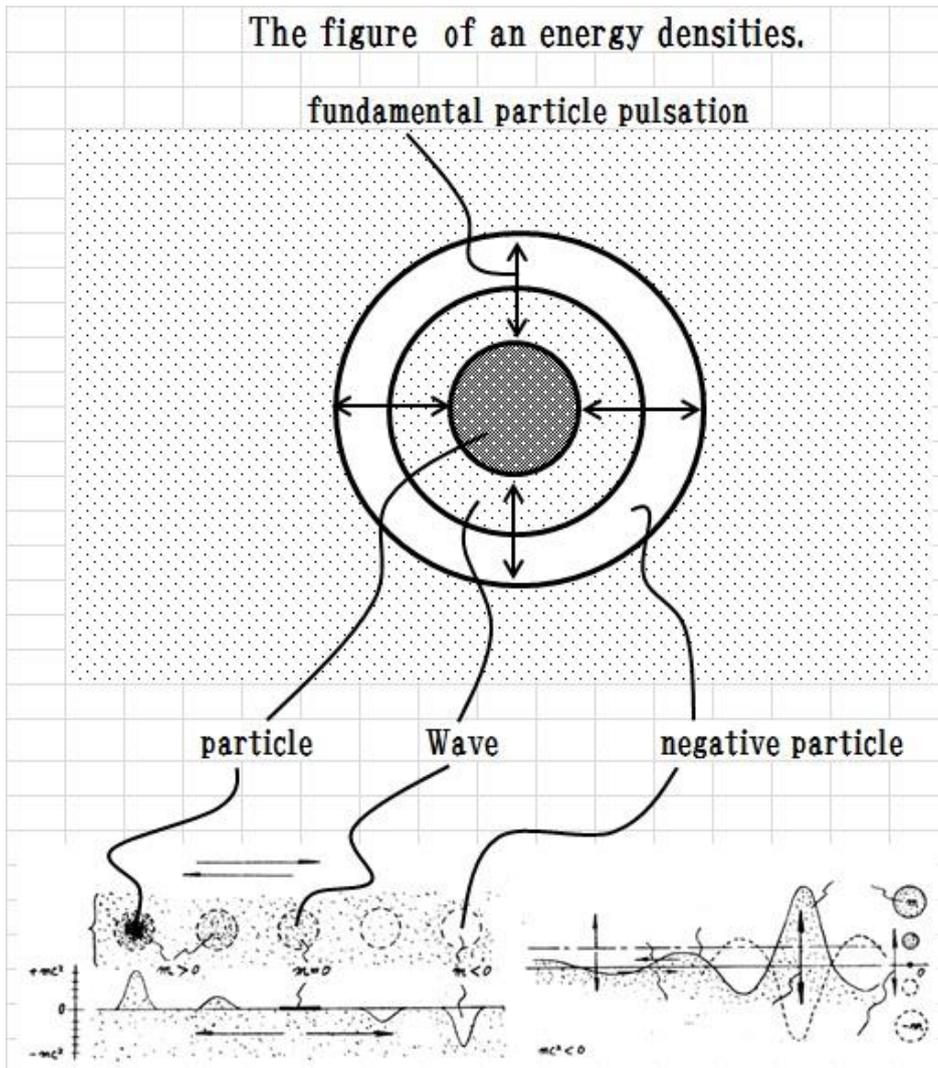
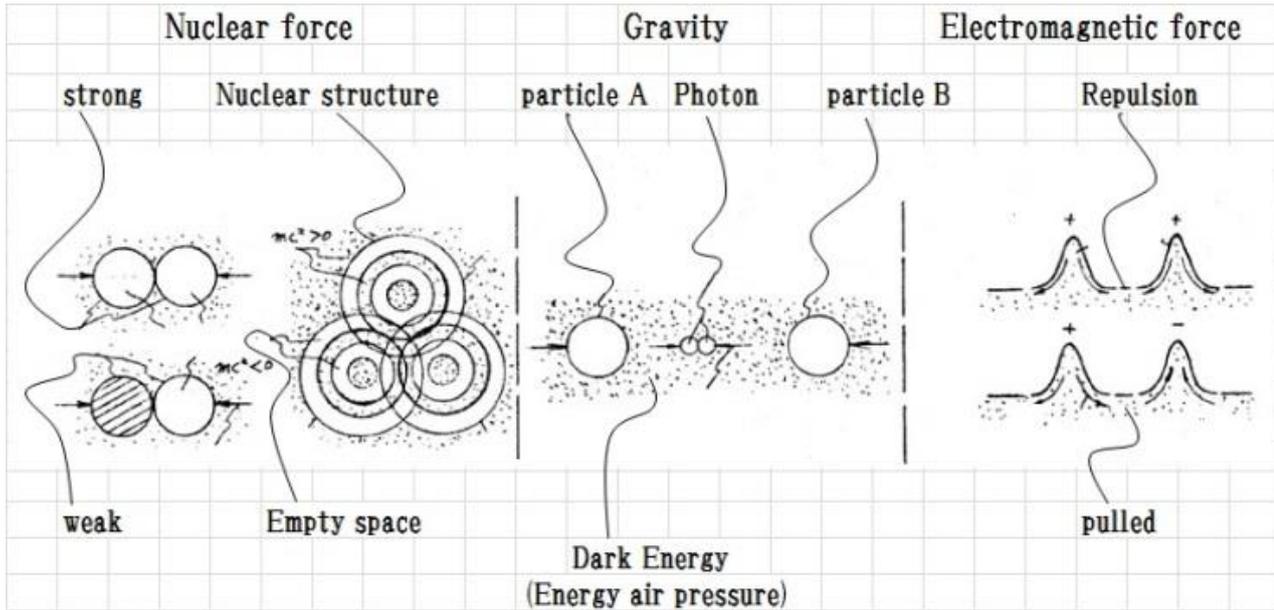


Fig.3 Conceptual diagram of nuclear, gravity and electromagnetic force by pulsating principle.

「Fundamental particle pulsation principle」



Quantization of time and space by pulsating principle. Intermittent time and space.

「Hidden variables in quantum mechanics」

Fig.4 By a wave journey of fundamental particle pulsation、

The mass of all fundamental particles is changed to the energy and that is released to a horizon.

That's spread by speed of light as a material wave.

When reaching speed of light according to a relativity principle, time stops.

Then a fundamental particle is a point.

Then the mass of the fundamental particle is a zero.

Time moves intermittently like the second hand of a clock, and space also becomes discrete.

Table of physical phenomena by stroke.

Properties	TABLE OF PROPERTIES		
	<i>Particles travel</i>	<i>Wave travel</i>	<i>Negative particles travel</i>
Energy value	mc^2	$\pm mc^2$	$(-) mc^2$
Quality	m	0	$(-) m$
Size	Measured values	Point	Measured values
Distortion of the space	Positive strain	No distortion	Negative distortion
Force	No	Electromagnetic force	Gravity Nuclear force
Dimensions	3-Dimensions	3-Dimensions	3-Dimensions
State	Object	Vacuum	Empty space
Super string	Particle Measurement	Point	Particle Measurement
Time	For	Stop	For

Properties	TABLE OF PROPERTIES		
	<i>Particles travel</i>	<i>Wave travel</i>	<i>Negative particles travel</i>
Spin	Fermions	Bose particles	
Elementary particle physics	Electronic. Proton. Neutron	Photon	Graviton. Meson
Space	4-dimensional space	3-dimensional space	4-dimensional space
The laws of physics	Quantum mechanics	Quantum mechanics	The theory of gravity
Uncertainty	Location	Exercise	Location

Figur.5 The Planck time is intermittent.

••• (The variable from which hid.)。

By a wave journey of fundamental particle pulsation、

The mass of all fundamental particles is changed to the energy and that is released to a horizon.

That's spread by speed of light as a material wave.

When reaching speed of light according to relativism, time stops.

When reaching speed of light according to a relativity principle, time stops.

Then a fundamental particle is a point.

Then the mass of the fundamental particle is a zero.

Time moves intermittently like the second hand of a clock, and space also becomes discrete.

Stairs of Prime resembles a staircase in time and space.

Figur.6 Dark matter and dark energy are two of the greatest mysteries of the universe, still perplexing scientists worldwide.

If the photons have mass, and

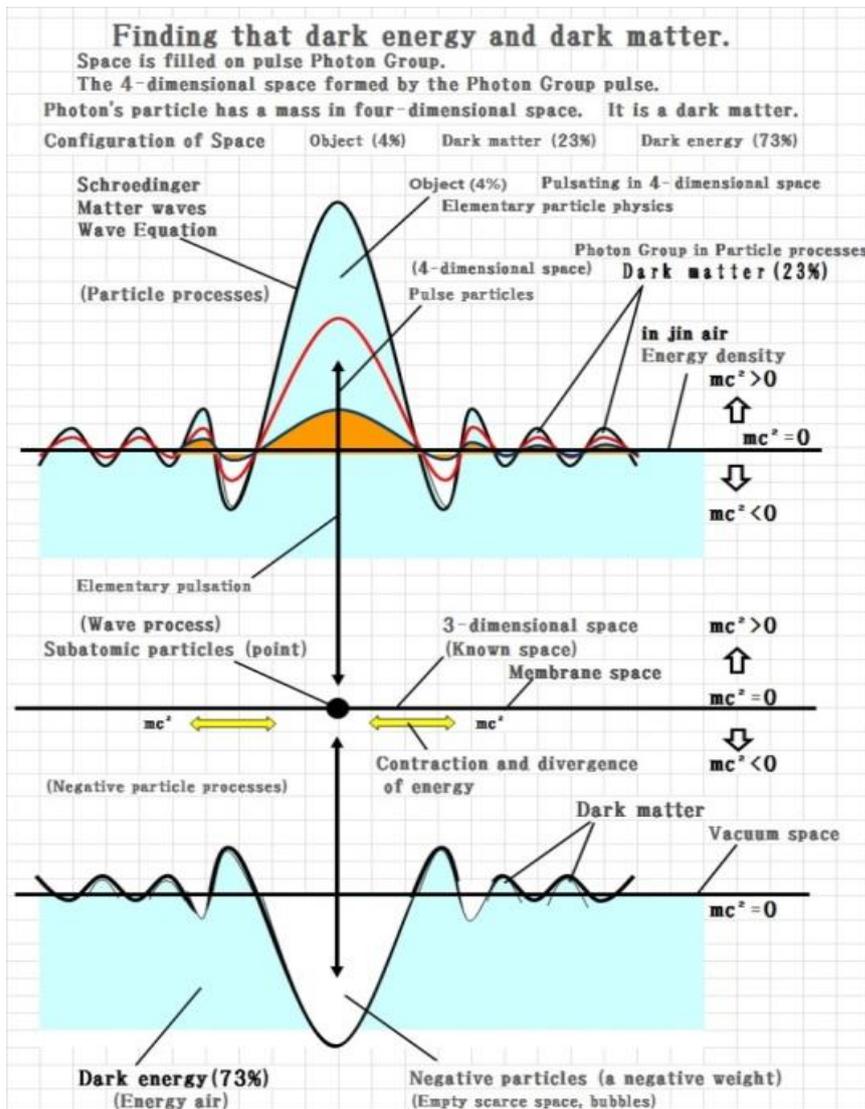
If the photons are particles Carter-Klein States in,

Photon is a perfect candidate for dark matter.

According to a pulsation principle.

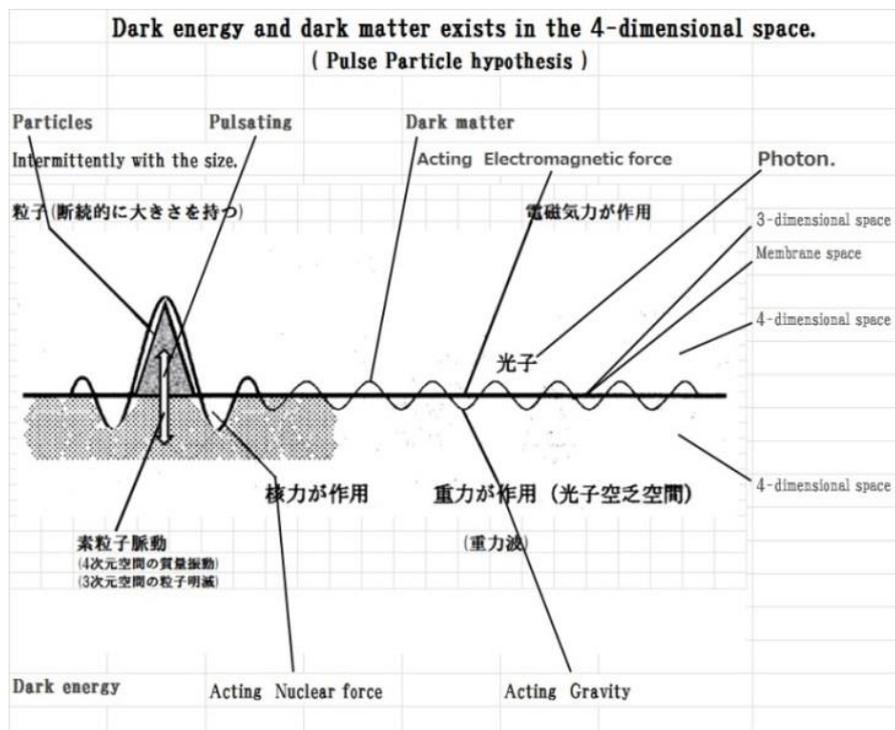
The photons have mass.

and A photon is in the state of the `Kaluza-Klein`.

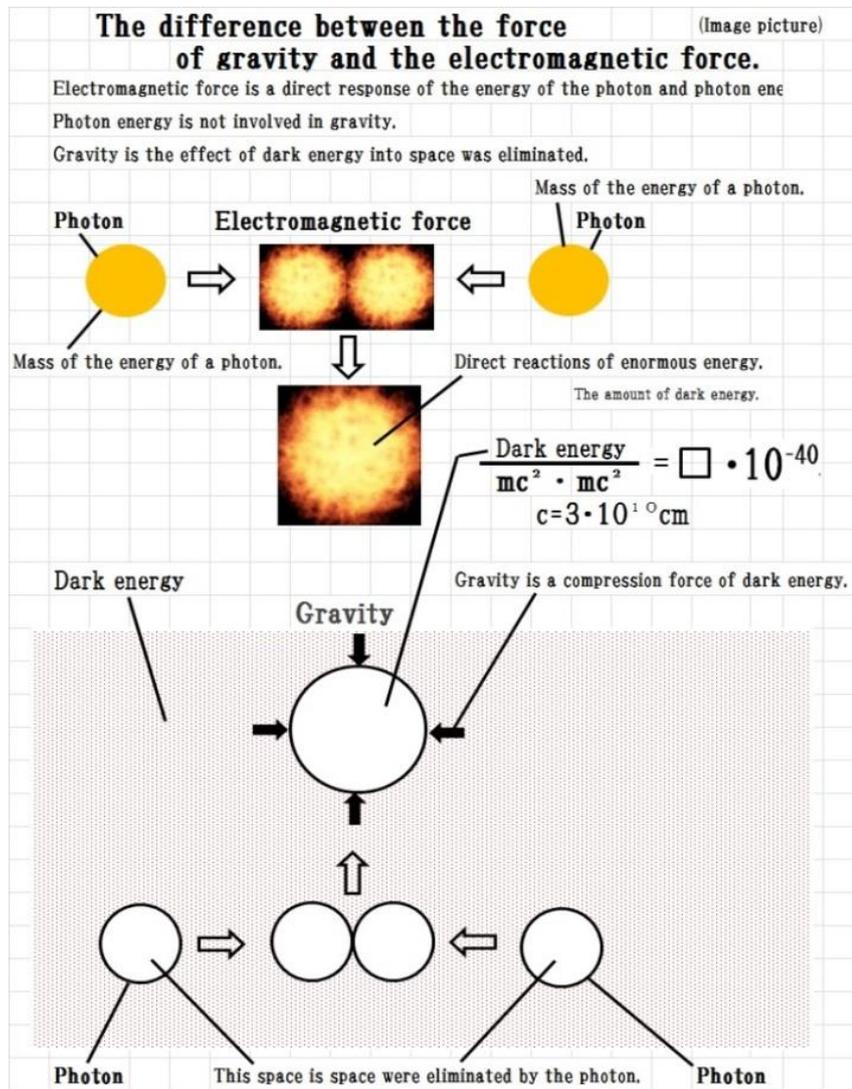


Figur.7

Concept of nuclear force by a pulsation principle, gravity and the electromagnetic power.
Nuclear forces. Gravity. Electromagnetic force.



Figur.8 Concept of gravity by a pulsation principle and the electromagnetic power.



Figur.9
 4 dimensional space of Kaluza-Klein theory

4-dimensional space

Be cut in 4-dimensional space sees our 3-dimensional space.

Outer space is bathed in light (a pulsating Photon Group), which form a 4-dimensional space.

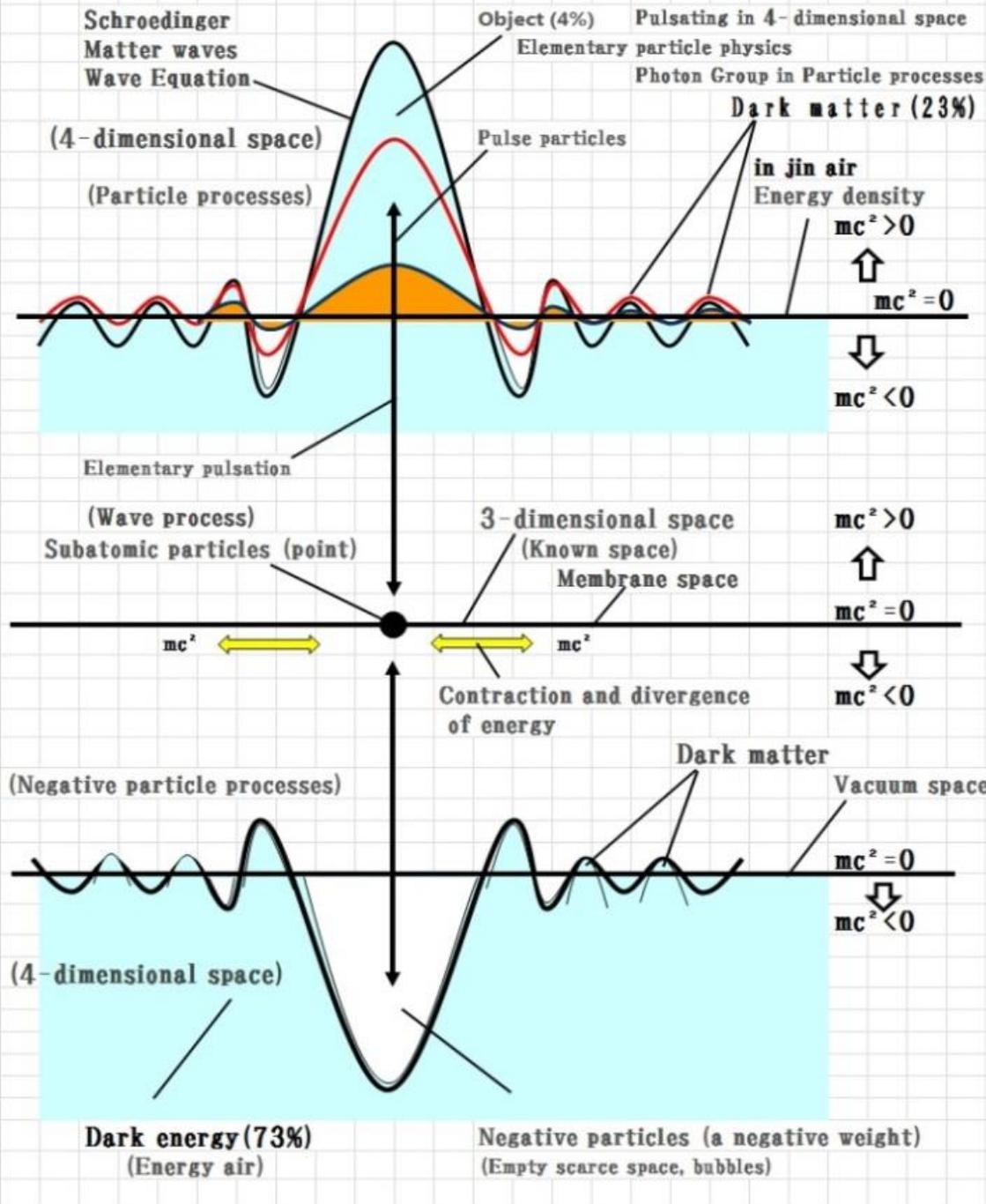


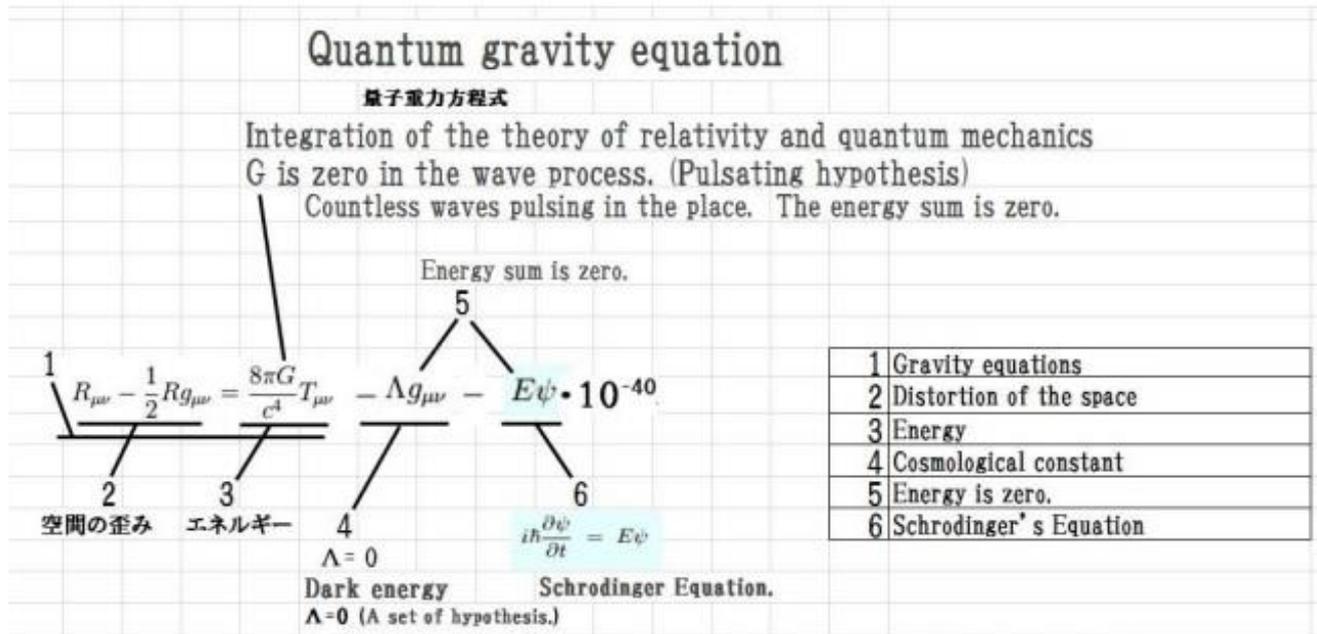
Fig.10 Combination of gravitational equation and quantum mechanics

The energy of the plus or minus is offset by super-symmetry of a pulsation model, and space fixed number Λ will be a zero.

The energy of the plus or minus is offset every 1 cycle of a pulsation model, and the total of the Schredinger equation is made a zero.

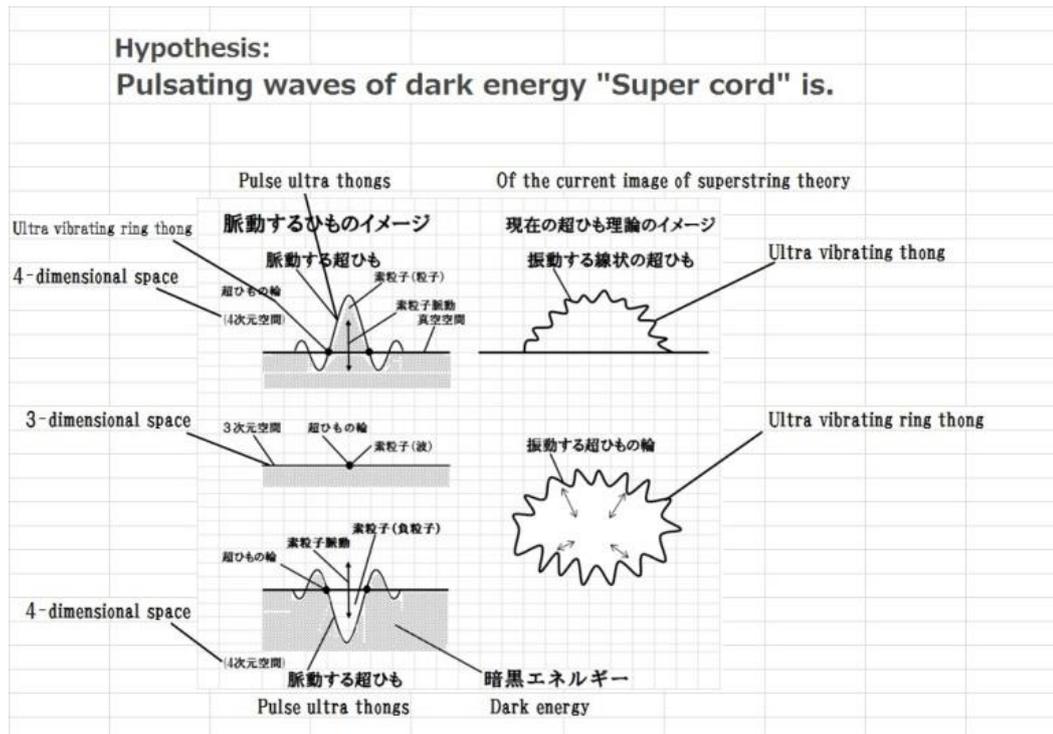
Quantum gravity equation.

Λ is dark energy. Its Λ set to zero.



Figur.11 New geometric modelling of superstring theory.

Compact concept isn't balled minimal space, an observation is the impossible minimal hour.

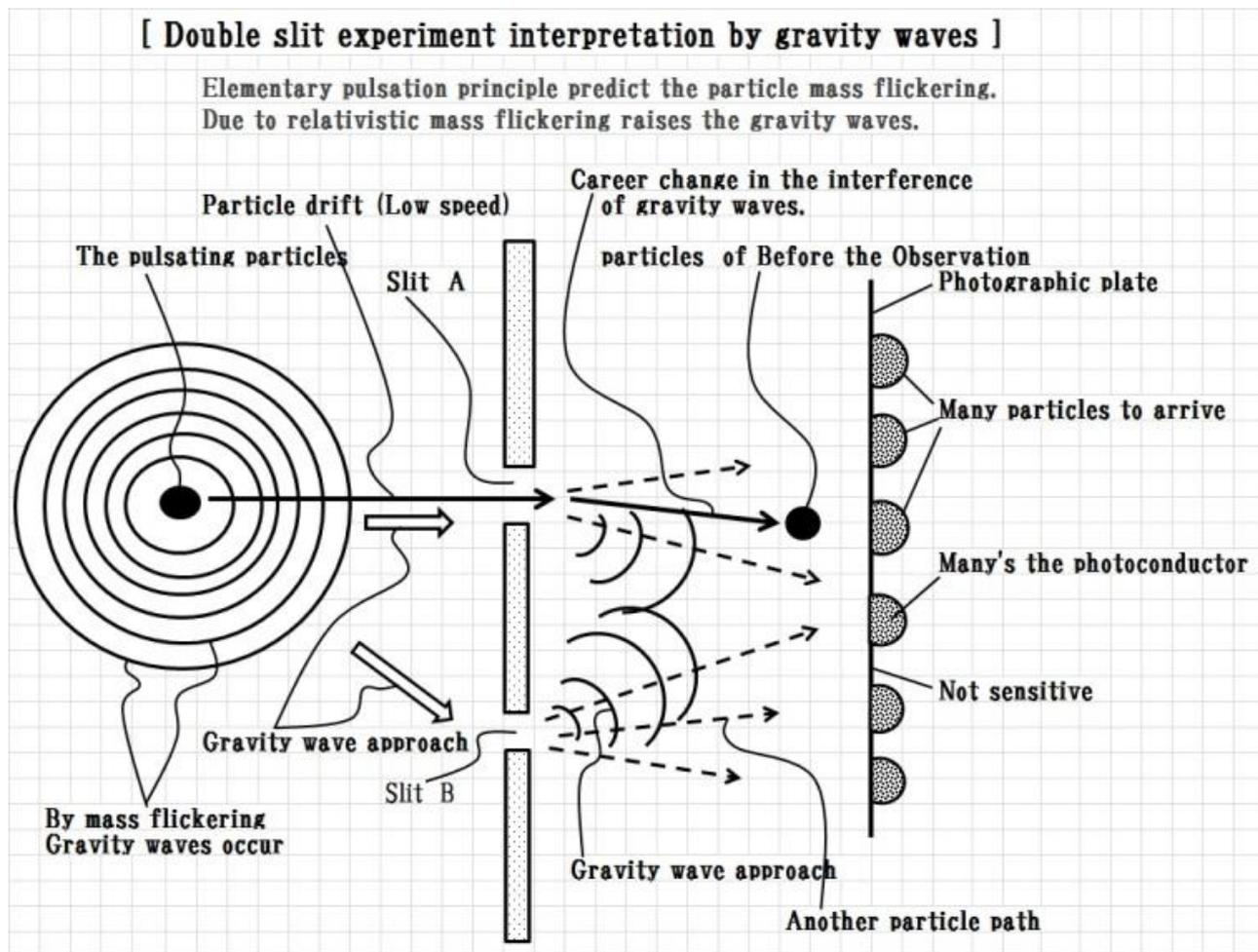


Figur.12

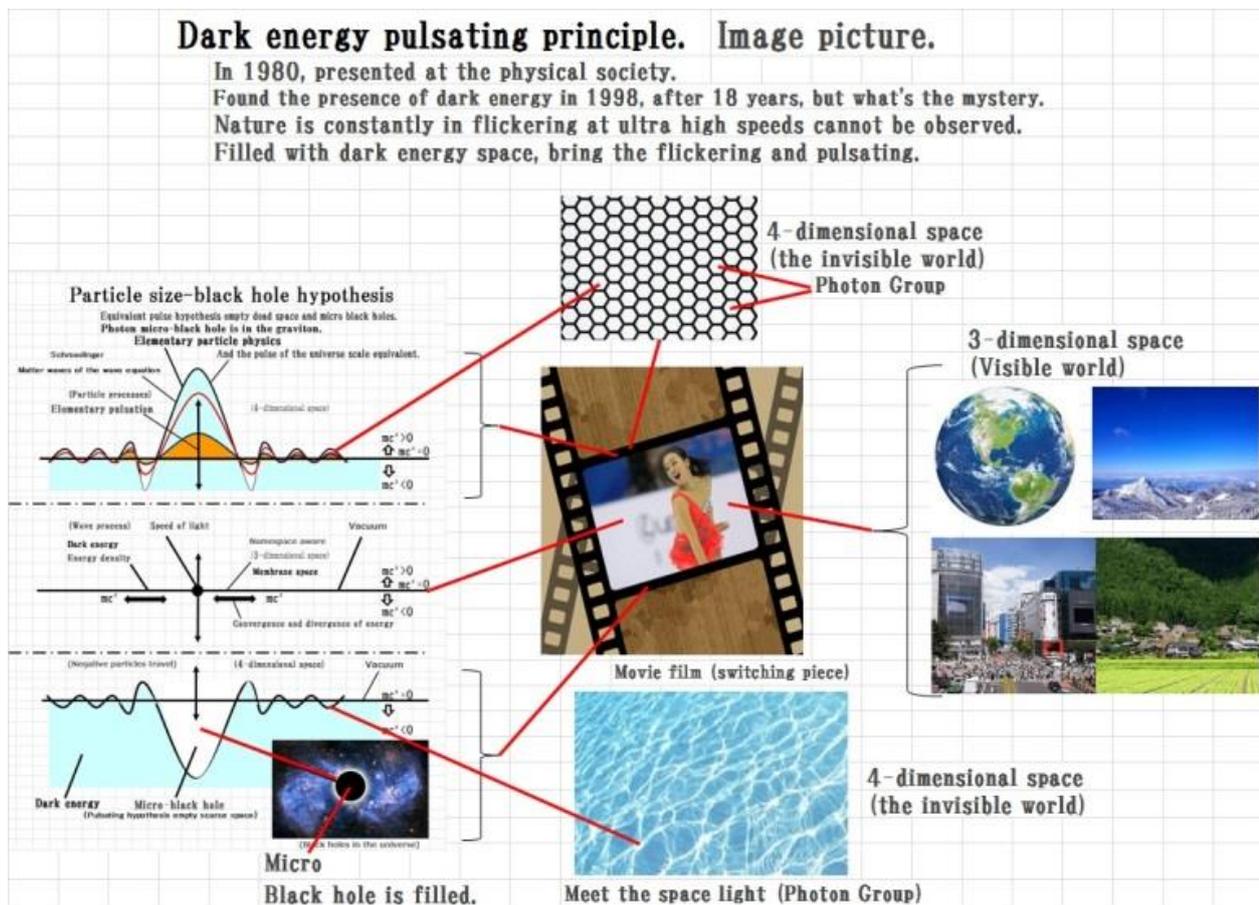
Mystery of a double slit experiment is influence of a gravity wave, and the stochastic interpretation is unnecessary.

A double slit experiment is a gravity wave detector in the laboratory.

A gravity wave keeps occurring from the fundamental particle which pulses.

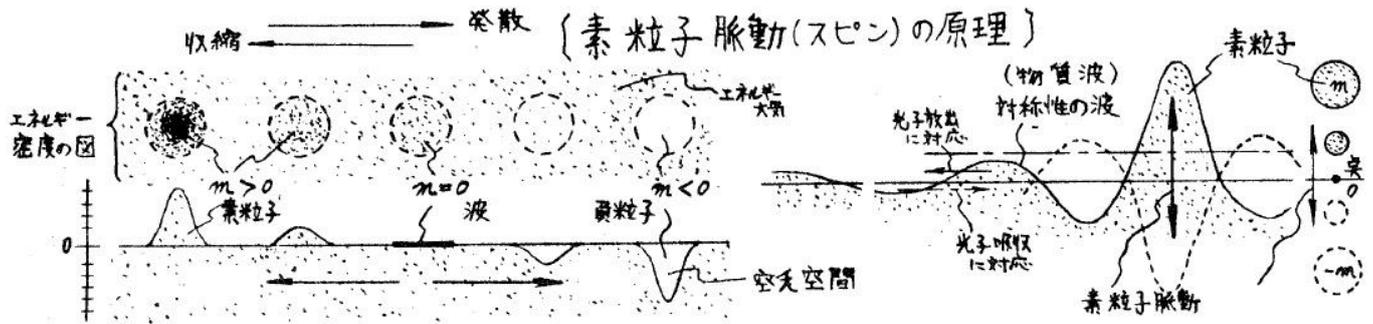


FIGER.13



This hypothesis elucidates fundamental mystery in the physics whole field.

- That solves a puzzle of the dark energy and dark matter.
- That solves a puzzle in 4 dimensional space.
- That solves a puzzle of gravity and the electromagnetic power.
- That solves a puzzle of superstring theory.
- the dark energy
- That solves a puzzle of the dark energy.
- The difference between the theory numerical value and the observation numerical value is 10^{120} .
- Super-symmetry of a pulsation model offsets the energy of the plus or minus.
- That makes space fixed number Λ a zero.
- The energy of the plus or minus is offset every 1 cycle of pulsation.
- That makes the energy total of the Schrodinger equation a zero.

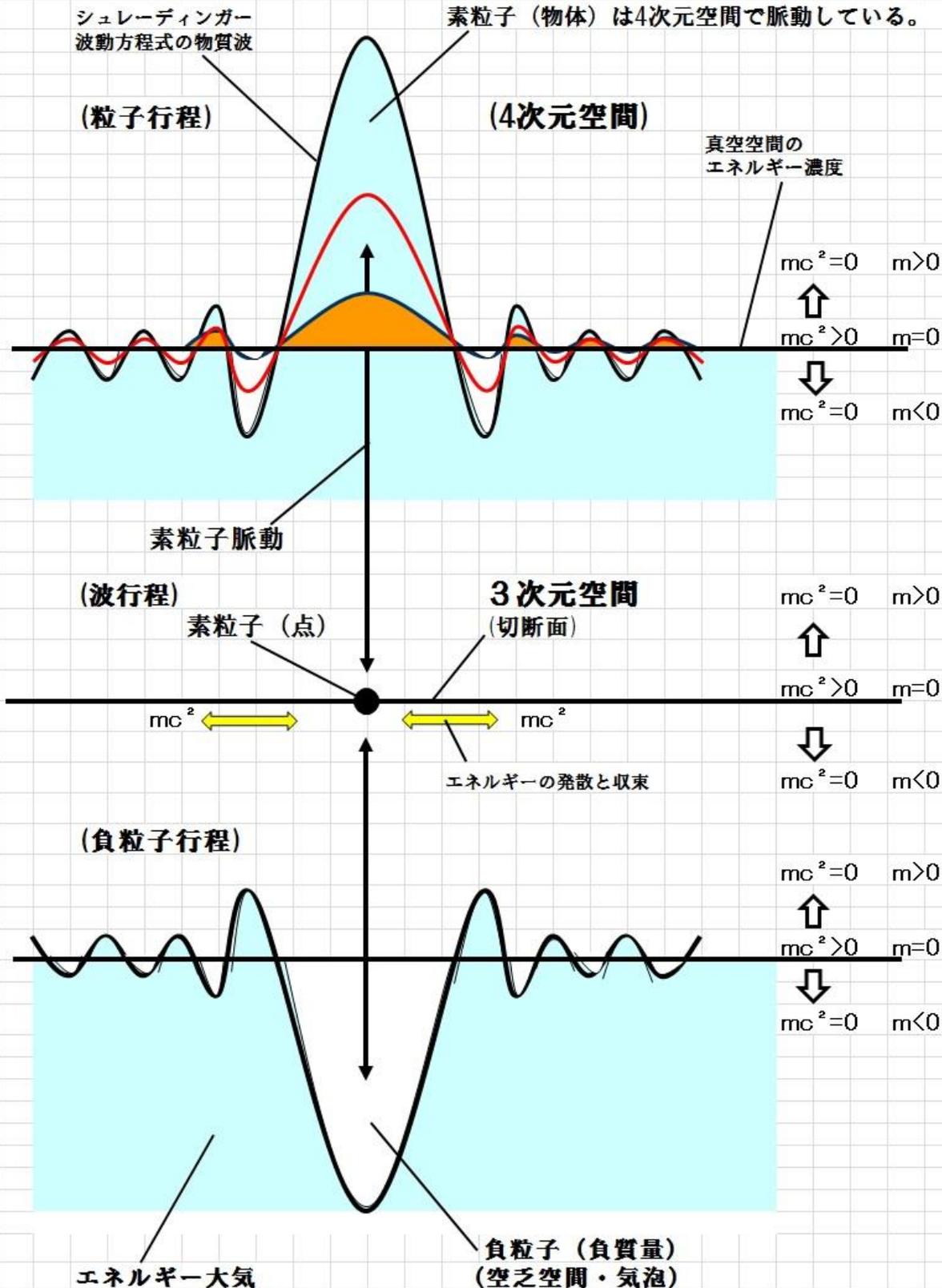


素粒子脈動行程別特性表

特性	粒子行程	波行程	負粒子行程
エネルギー	ゼロ	$\pm mc^2$	ゼロ
質量	プラス m	ゼロ	マイナス m
状態	質量	エネルギー	負質量
存在する空間	4次元空間	3次元空間	4次元空間
大きさ	素粒子の実測値	点	負の実測値
空間の歪み	正方向への歪み	水平で歪みなし	負方向への歪み
作用力	なし	電磁気力	重力・核力
9次元	3次元	3次元	3次元
超ヒモのサイズ	素粒子の実測値	点	負の実測値
時間	進行	停止	進行
スピン	フェルミ粒子	ボーズ粒子	
素粒子の種類	電子・陽子・中性子	光子	重力子・中間子
不確定性	位置	運動量	負粒子の位置

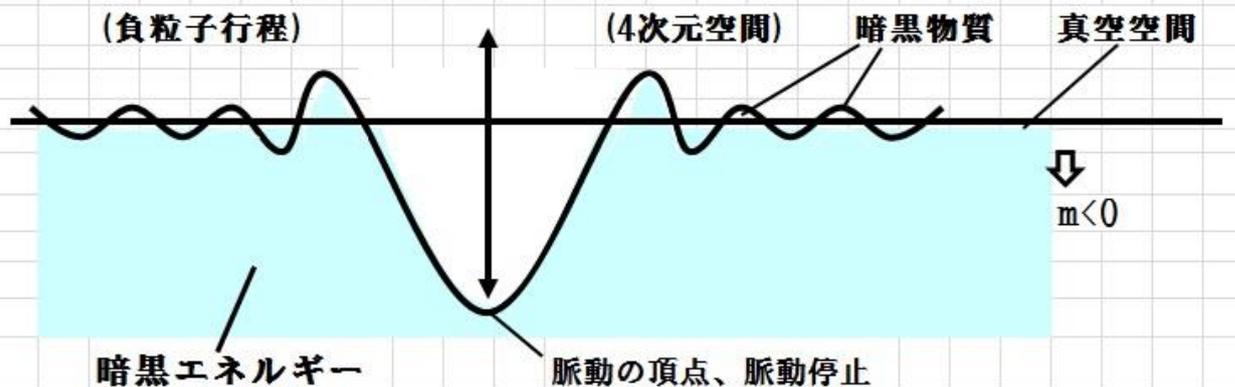
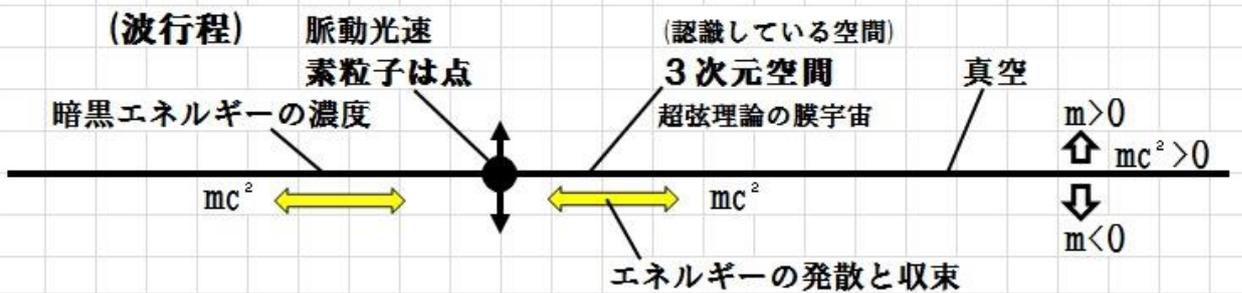
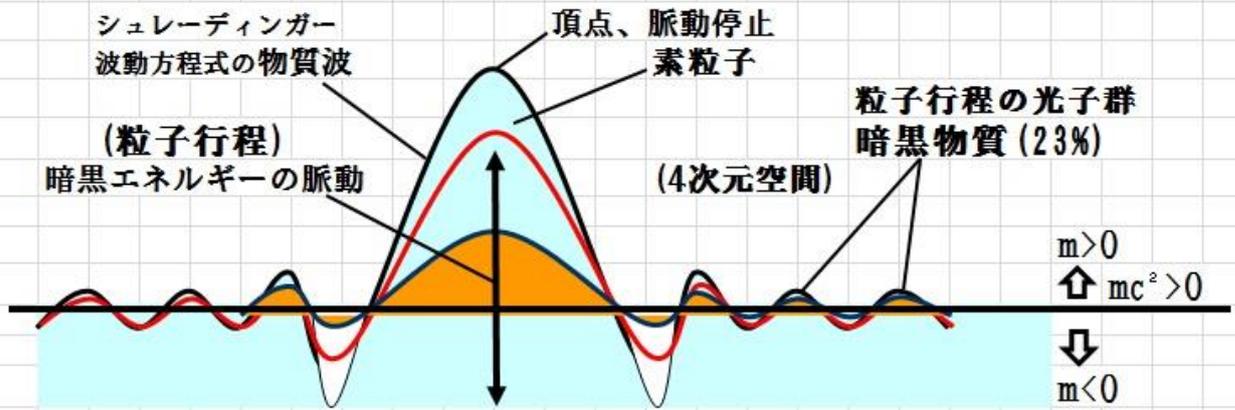
4次元空間

宇宙空間は光(脈動する光子群)に満たされ4次元空間を形成している。
4次元空間の切断面が我々が認識している3次元空間である。
質量は4次元空間に属し、エネルギーはゼロ。エネルギーは3次元空間で現れる。



暗黒エネルギーの物理 (素粒子脈動原理)

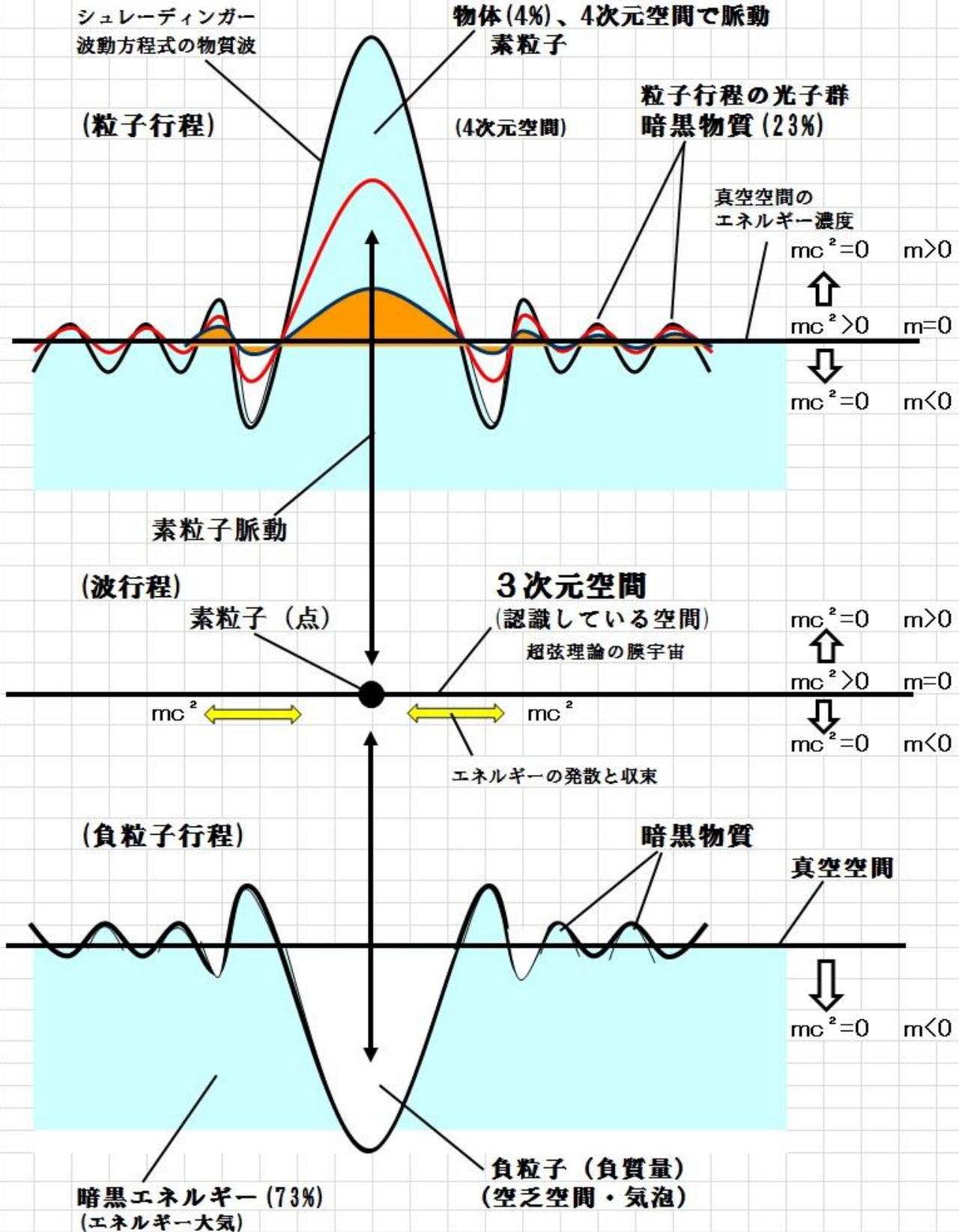
宇宙空間は反発しあう暗黒エネルギーが均一に分布し、4次元空間を形成している。暗黒エネルギーの濃度を水平線(3次元空間・真空)として表し、濃度変化の波紋が物質波として場を伝搬してゆく。物質波の水平線より上の部分が暗黒物質。



宇宙物理学の謎、暗黒物質・暗黒エネルギーを発見。

素粒子脈動原理がダークマター、ダークエネルギーを解明。

宇宙空間は光（脈動する光子群）に満たされ4次元空間を形成している。
粒子行程の光子は4次元空間において質量を持ち、暗黒物質となっている。
宇宙の構成は物体が4%、暗黒物質が23%、暗黒エネルギーが73%とされている。



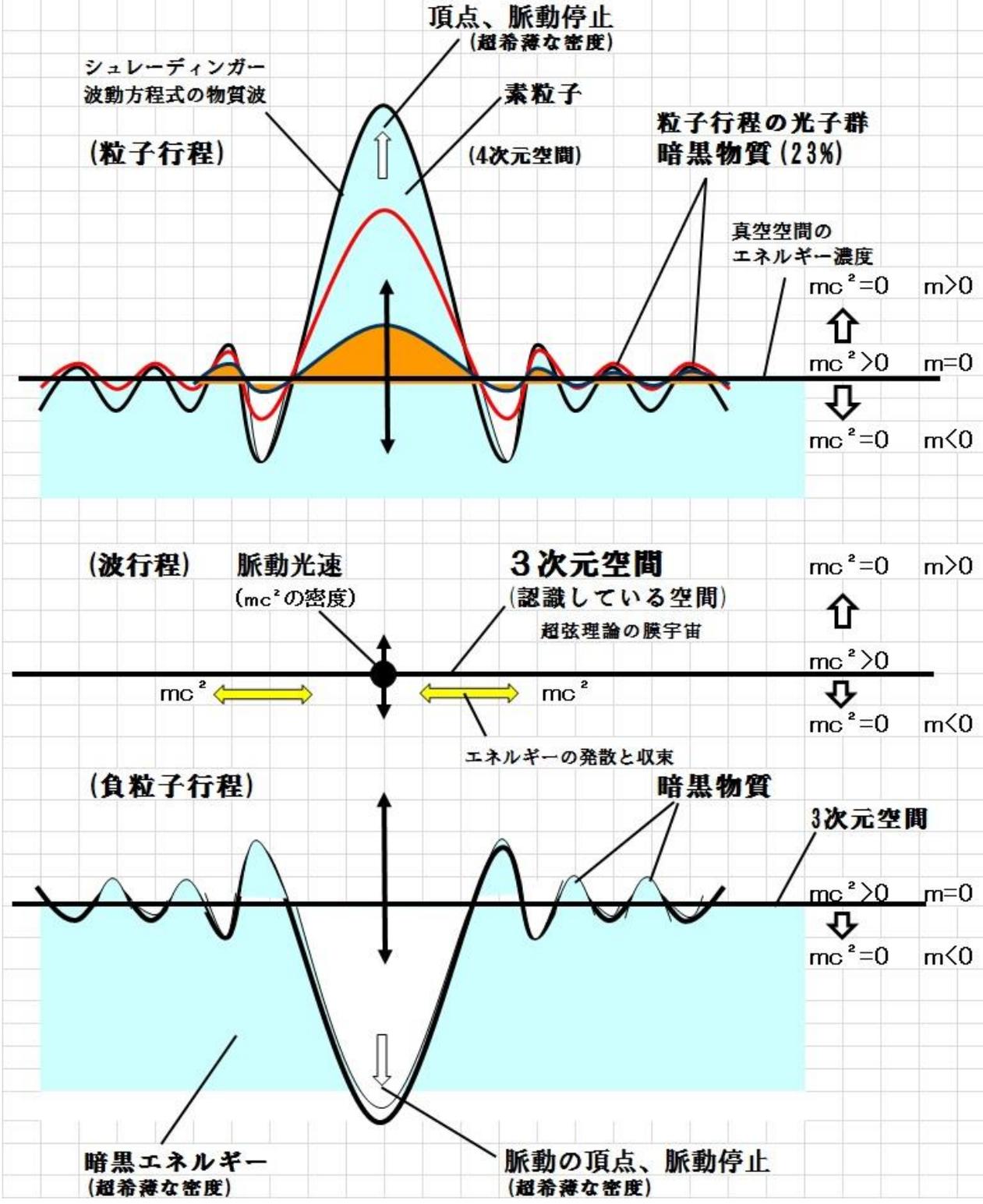
暗黒エネルギーの脈動による素粒子質量の発生機構。

暗黒エネルギーの超高速脈動が素粒子質量の大部分を形成する。

素粒子は脈動する暗黒エネルギーによって構成されている。

暗黒エネルギーの質量は、素粒子質量全体の3%にすぎない。

大部分の質量は暗黒エネルギーの光速、停止を繰り返す素粒子脈動により発生する。



暗黒エネルギー脈動原理

脈動原理が解明する量子力学の幾何学

