

Proving method by Abduction of *New stationary cosmology* in astrophysics. (*Describe the Earth-centered Redshift and isotropic background radiation, Neither Expansion nor Creation*)

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A new stationary universe^[1] (neither expansion nor substance creation) can explain the red-shift of the earth-center and isotropic background radiation.

Why is redshift shifted farther away from Earth, although Earth is not in Center of Universe?

Why can we explain the undetectable expansion on the Earth with distant light?

<< **Explanation of Red-shift** >>

Steady universe that can explain the global red shift and isotropic background radiation. In 1929, Edwin Hubble proposes that there is a proportional relationship between the nebula distance from the earth and the red-shifting. That rule is called Hubble's Law. The speed of the galaxy can be represented mathematically, $v = H \times d$ (1)

Where V (velocity) is the outward velocity in the radial direction of the galaxy and d (distance) is the distance from the earth to the galaxy. The Hubble constant H is $H = + 500$ to 560 km / sec / million / sec. 1929 to 1931. Recent values are 72 ± 4 km / sec / million / secs.

<< **Expansion universe hypothesis** >>

According to Friedman's hypothesis, if the observation result is interpreted as Doppler effect only, it can be interpreted as an exercise in which the galactic outer nebula is expanding in the gravitational field equation. (A. Einstein)

In order to reproduce the red shift, the farther away from the center of the earth the source galaxy needs to retreat at high speed. In Newtonian mechanics, the inertial motion can only sustain constant velocity linear motion, so the outer space needs to continue to expand. Even if the reason for expansion is unknown, the red shift can be reproduced. There is no explanation as to why the value of the red shift is observed to increase as far as the Earth, mainly for the Earth, and why it is observed. It is said that the universe is expanding from observation results. It was because quantum mechanics was incomplete. Therefore, after explaining the interpretation of the red shift with the Doppler effect, it is a flower of various cosmology.

<< **1. Constant Universe Hypothesis of Quantum Red Shift^[1]** >>

Considering the law of conservation of energy and $E = h \cdot \nu$, the wavelength is shifted by α^2 times at a position α times the distance R_s at which the wavelength is started to be shifted after being diluted. In addition, a redshift at the center of the earth (observation point) is also observed. Even if the universe is not inflated, a new stationary cosmology that can explain Hubble's red shift can be completed.

<< **2. Description of background radiation** >>

If the universe is closed, background radiation can also be explained by frequency shift from the opposite side of the energy preserving universe.

If space is closed, 3 °K isotropic background radiation can also be explained by dilution of average energy by Lambert's law of the average star (the sun).

<< **3 Reason why the universe does not collapse, New interpretation of inertial mass** >>

Furthermore, the inertial mass is a Mach dynamics interpretation, mass reaction against the resultant force (gravitational force) of all the universe, which is also the reason why the total mass of the universe does not collapse to a single point.

<< Unified interpretation by abduction >>

In Abu Da Kyung there is a need to be able to explain the current situation. Furthermore, if you can explain another current situation (isotropic background radiation), the truth will increase more. In this way, since it can be interpreted uniformly by the new stationary space hypothesis, **there is no need for expanding the outer space, and there is no need to exercise in the distant universe. There is also no need for the quasar to move beyond the speed of light.**

I wonder if energy is necessary for the space to expand.

Since the space does not expand, a new mechanism is unnecessary.

Observation results of the universe are difficult to explain either by induction or by deduction. Being able to propose a reasonable hypothesis that can explain it unifiedly helps explore the truth in abduction.

[1]Space Quantum Red Shift Hypothesis and New Theory of Non-Expansion Universe AKIRA TANEKO.

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M-ZZ42 赤方偏移が何故 地球を中心として観測されるのか? 空間量子赤方偏移仮説 2017-05/21

Abductionを適用し
 Z_q 計算結果と解釈
 空間量子化vs膨張.
 その変換波長 λ' を計算

- $\lambda' = \lambda, Z_q = 0$
(但し $0 \leq \alpha < 1$)
- $\lambda' = \lambda \cdot r'^2 / r^2$
 $= r \cdot (r' / r_e)^2 = \lambda \cdot \alpha^2$
 $Z_q = \alpha^2 - 1$ (但し $1 \leq \alpha$)

地球中心の赤方偏移を,
 量子赤方偏移仮説では,
 計測位置による必然として説明できた. 膨張不用.

膨張仮説では $\lambda' = \lambda(1+V/c)$ [ドップラー効果] V について解くと,
 □ $V = c \cdot (\lambda' / \lambda - 1) = c \cdot (\beta - 1)$ である. $\beta \equiv \lambda' / \lambda$ と定義すると,
 □ $Z_d \equiv (\lambda' - \lambda) / \lambda = \beta - 1 \equiv V/c$ ただし $2 < \beta$ の範囲で光速を超える.
 □ ハッブル測定結果で $Z_d = r \cdot K$ $\therefore V = r \cdot c \cdot K$ r が大で V が超光速.

The graph plots the quantum redshift Z_q on the y-axis (ranging from -2.0 to 16.0) against the normalized distance $\alpha \equiv r/r_e$ on the x-axis (ranging from 0.0 to 5.0). Three data series are shown: 1) '空間量子赤方偏移の定常宇宙仮説' (Quantum red shift Steady-State Cosmology) shown as blue diamonds, which follows a curve $Z_q = \alpha^2 - 1$; 2) '量子赤方偏移のみによる距離にのみ依存' (Quantum Red-shift due only to the distance, No need to exceed the speed of Light.) shown as red squares, which is a constant horizontal line at $Z_q \approx 1.0$; 3) '膨張宇宙仮説' (Red-shift due to the Doppler effect with High Velocity to the distant) shown as green triangles, which follows a linear trend $Z_d = r \cdot K$.