

**Title 1:** The theory on thing's limits. Part 1: the norm of identifying truth

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**Abstract 1:** Things refer to the objects and phenomena in reality. Limits refer to the truths and the processes of approaching them. Then there is the principle of inertia, which is characterized by continuity, and a necessary condition for reasoning in reality. Therefore, thing, limit and inertia are the three elements that constitute "The theory on thing's limits". Truth must have absoluteness and immutability, does not exist in reality, and belongs to the category of metaphysics. The characteristic of the truths is that they cannot be proved by empirical methods, and can only be gradually approached by repeated practices. Based on this, this article has established the norm for identifying truth. It not only has achieved the unity of opposites of all knowledge, but can also according to have the characteristic of continuity on the change of objective things make bidirectional reasoning under the premise of mutual restrictions. From the quantitative change in the real space has gone deep into the qualitative change of ideal realm, it extends the philosophy of materialism to the category of metaphysics. As a result, the true nature of metaphysics has been restored. That is to say, it has neither divorced from practices, nor just observed objective things with a one-sided, isolated and static way of thought. The theory is applicable to all academic categories, and it is to provide an effective method for testing authoritative theories, clarifying chaos, and deriving new knowledge. Finally, according to the theory and norm therein, combining with the objective status quo, this article has briefly analyzed three examples and pointed out the crux of Einstein's special relativity.

**Title 2:** The Theory on Thing's Limits Part 2: A Brief Analysis of the New Knowledge of Newton's First Law

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**Abstract 2:** According to the norm of identifying truth in this theory, and Newton's first law which is a basis that can look at the overall situation, and by virtue of the electron storage ring as an experimental fact, it is pointed out: Only in reality can there be inertia. Inertia represents the continuity of the development of thing. As the speed gradually approaches to the *c*, the particle's mass also approaches to zero along with its static mass due to the impact of electromagnetic radiation, which is exactly the root where the energy shrinkage effect of high-speed particles comes from, and also the primary factor causing the spectrum redshift. Therefore, the Big Bang theory is wrong. All photons are produced from the high-density particles through electromagnetic radiations. Wherever there is fluctuation, there must be mass, and vice versa. This is the correct understanding of "wave-particle duality". No matter the high-speed electrons or the photons produced by them all have different static masses, but their charge-mass ratio is always the same physical constant, and

not affected by relativistic effects and electromagnetic radiations. This is the true internal mechanism to constitute the uncertainty principle, and conforms to the experimental facts related to it. It can be proved that in a constant magnetic field, the high-speed electron or photon of having a relatively large curvature radius, which has a high moving speed and less mass, energy and wave frequency. Since Einstein used the absolute space-time established by Newton as the criterion and came to the conclusion that the relative space-time was curved, then he should no longer make circular arguments, that was, used the relative space-time as the criterion, to change the unit length and time established by the absolute space-time.

## **Title 3:** The theory on thing's limits. Part 3: The root cause of modern physics' century-long wandering

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**Abstract 3:** Electromagnetic radiation can cause an electron to be further broken down, because the radiated photons have taken away a part of the static mass that originally belonged to the electron. This article makes use of the experimental data approved by HLS800MeV electron storage ring, and reasonably calculates that the static mass of each electron in the ring is roughly in the range of $1.16\times10^{-33}$ to $3.23\times10^{-35}$ (kg). Once a consensus can be reached on this, it will mean the end of the century-long wandering of modern physics. If tracing its root, the problem has lain in relying solely on experimental data, like a blind person crossing the river by feeling for stones, difficult to grasp the correct research direction. So it is pointed out that based on the continuities of the development among truths and objective things are more reliable than relying solely on experimental data. Because the experimental data are not eternal, but any truth must be eternal. So once the two are combined with each other, as if the blind person has regained his vision again. That is, only based on the concepts and methods introduced in this article "The theory on thing's limits", the correct research direction can be ensured.

**Biography**

I am the sole author of "The theory on thing's limits": Jian DING (1953- ), Male, Retired, metaphysics and physics. Jinan 250100, China. E-mail: jiandus@163.com. ORCID iD: DING Jian/Jian DING, https://orcid.org/0000-0003-1525-5332
My "The theory on thing's limits" is based on the continuities of the development among truths and objective things, and applicable to all academic categories. Because this theory has not only restored the true nature of metaphysics, but also achieved the goal that Sir Isaac Newton (Isaac Newton) pursued in his life. That was, theological (metaphysical) thought and scientific ideal were closely related, which was an organic whole, and might enlighten each other.

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