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The Noble Physics: A Psychohistorical Journey to the Stars and Stripes, and the Theories of Prediction

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Abstract

This paper embarks on a psychohistorical journey through physics, exploring humanity's evolving understanding of the cosmos. From ancient geocentric views to modern cosmology's Big Bang, we trace key developments by Newton and Einstein. A novel "Podolsky" region is proposed: an energyless space area where Newton's Third Law of motion might not apply, challenging fundamental conservation principles. We also uniquely frame the U.S. Declaration of Independence's "self-evident truths" as a theory of prediction, analogous to Asimov's psychohistory. The discussion concludes by visualizing the "United" the universe as a stripe and beyond-galaxies stars as the foundational source of cosmic universes, bridging societal evolution and cosmic imagery. An abstract question is: What does the entire creation look like?

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Discussion

Once, a philosopher was teaching astronomy to an audience. In his description of the Earth's planetary nature, he was saying that the sun revolves around the Earth, and that this Earth is held up by a big beautiful elephant on its trunk, and that elephant is standing on the back of a tortoise, and the tortoise is standing on a stone. Then a young man stood up and asked, Honorable astrologer, is that stone floating in space then? If it cannot be, what is it resting upon? The philosopher smiled faintly and said, You seem very clever, young man. However, that stone is on another stone, and so on, one stone after another! The stones all the way down. The seminar ended for the day. But humanity's interest, education, research, discoveries, and steps regarding the astronomy and cosmology of the universe have not ceased.

It was a beginning period of the human teaching of the Earth's planetology in their understanding way and by known figures. Perhaps the philosopher taught this way because this teaching also supported their contemporary popular Greek and Roman religions of worshipping the statues of Gods and Goddesses. As in present times, many a preacher also teaches scientific cosmology in support of their faithful religious contexts, which are not always necessarily justified scientifically. For an updated example, the Maglev force of gravity occurs the orbital revolves. However, in this way, many outreached people have gained ideas and learned about astronomy of the creation. Sometimes these teachings become commercial preaching for business interests. There also had limitations of scientific capacity to understand and to express as well. But later advanced science and technological innovation obtained clear and full features, images and shapes of our planet Earth, sun, solar system, our galaxy and even stars beyond galaxies in the universe. Although many galaxies' images and shapes were possible to capture, the universe has yet remained unknown.

However, the following celestial theory of prediction I asserted in a comment with General Michael Thomas Mike Flynn: “Climate, nature, and the environment would be no longer inaccessible to humankind. We will win the universe and connect other universes as well, towards scientific journey to the heavens. Perhaps, what do you think about death, immortality and rebirth in the future of humanity?” It gives a sense of others universe in the infinite creation. Our “United” universe particularly belongs with energy, space and time. Celestial life also belongs with the sense of creator and spirits forces.

Since the early 1900s, cosmology has shown us that space and time originated simultaneously with the Big Bang, an event that occurred roughly 13.787 billion years ago. From that moment on, the universe has been continuously expanding. While the observable universe currently spans about 93bln light-years in diameter, its overall size and precise shape remain a mystery. Early cosmological models, conceived by ancient Greek and Indian philosophers, positioned Earth at the universe's center (geocentric). However, as astronomical observations grew more precise over centuries, Nicolaus Copernicus introduced the heliocentric model, correctly placing the Sun at the center of our Solar System. Isaac Newton then expanded upon Copernicus's groundbreaking work, incorporating Johannes Kepler's laws of planetary motion and Tycho Brahe's observations, to formulate his law of universal gravitation.

Isaac Newton first presented his three laws of motion in his groundbreaking work, Philosophiæ Naturalis Principia Mathematica, published in 1687 [1]. These laws laid the groundwork for classical mechanics, a field that has since been expanded by new understandings, particularly concerning energy.

However, Newton's laws do have their limits. New theories are needed when dealing with:

- Objects moving at very high speeds (explained by special relativity).
- Very massive objects (explained by general relativity).
- Very small objects (explained by quantum mechanics).

Newton's third law of motion famously states: "To every action, there is always opposed an equal reaction; or, the mutual actions of two bodies upon each other are always equal, and directed to contrary parts.”

Albert Einstein's theories of relativity established time as a fourth dimension, which is fundamental for an object to have a perceptible existence. Albert Einstein profoundly reshaped our understanding of the cosmos with his groundbreaking theories of Special Relativity (1905) and General Relativity [2]. A central and revolutionary concept within these theories is that time is not a separate, absolute entity, but rather a fourth dimension, intimately interwoven with the three dimensions of space. This unified four-dimensional framework is known as spacetime. Prior to Einstein, space and time were viewed as independent. However, Einstein demonstrated that they are inextricably linked, forming a single continuum. Just as an object occupies a specific position defined by its length, width, and height, it also exists at a particular point in time. Therefore, an object's "perceptible existence" is not merely about its spatial coordinates; it is fundamentally dependent on

its temporal coordinate within this spacetime fabric. Energy is also an essential next dimension to an object's existence in real-time. In addition, colors are foundational equations in these series. Without the dimension of time, an object would possess no duration, no progression from past to present to future. It could not undergo change, interact with its environment, or even be observed, as observation itself is a process that unfolds over time. Every event, from the simplest motion to complex cosmic phenomena, occurs within this dynamic four-dimensional spacetime continuum called “realtime.” Phenomena like time dilation and length contraction, where time and space appear to change for observers in relative motion or strong gravitational fields, are direct consequences of this unified perspective. Time, in this view, is not just a backdrop for events and bottomless basket but an active component of reality, warping and bending alongside space in the presence of mass and energy. This insight is critical to comprehending the very nature of our universe and the existence of everything within it. Therefore, the laws of motion are not independent from the state of energy. I proposed a prediction that in an 'energyless space area'—which I call 'Podolsky'—the principle of equal and opposite reactions might not apply, suggesting that no opposing force would be enforced there. The predictive theory states, An energyless space area, "Podolsky," where no opposite reaction might be enforced.

The fundamental laws governing motion and interaction in our universe were meticulously codified by Isaac Newton in his seminal work, Philosophiæ Naturalis Principia Mathematica [1]. Central among these is Newton's Third Law, which asserts that "to every action there is always an equal and opposite reaction." This principle is foundational to classical mechanics, ensuring that forces always occur in pairs and, crucially, guaranteeing the conservation of momentum within any closed system. Implicit in these laws, and explicitly developed in later physics, is the understanding that forces, motion, and energy are deeply intertwined; applying a force to cause displacement involves work, which is a transfer of energy, and energy itself is a conserved quantity in all known interactions. The study introduces a highly speculative, yet thought-provoking, prediction: "the law of motion are not independent from the state of energy." It posits a theoretical construct—an "energyless space area"—which I named "Podolsky" after my Russian wife Mrs Podolsky “Yanna” Seldon (m. 2024). The central and radical claim is that within this observing hypothetical "Podolsky" region, the principle of equal and opposite reactions, Newton's Third Law, might simply not apply. This suggests a scenario where an action might occur without necessarily generating a corresponding opposing force. To grasp the profound implications of such a hypothesis, we must critically consider what "energyless" truly signifies in a physical context. In our current understanding, energy is a pervasive and fundamental property of the universe, operating under the principle that the total energy of the universe remains constant, it can neither be created nor destroyed but only changes its state of formation. The theory is the Law of Conservation of Energy, also known as the First Law of Thermodynamics.

The Law of Conservation of Energy states that energy can neither be created nor destroyed; it can only be transformed from one form to another. This means that the total amount of energy within an isolated system, such as the entire universe, remains constant over time. When we "use" energy, it doesn't vanish; rather, it converts into a different form. For instance:

- Chemical energy in gasoline is converted into mechanical energy to move a car, and heat energy as a byproduct.
- Potential energy (e.g., a ball held high) is converted into kinetic energy as it falls.
- Electrical energy powers a light bulb, turning into light energy and heat energy.
- While energy can change forms, the total quantity of energy in the universe is believed to be fixed. This fundamental principle is a cornerstone of physics and is consistently observed in all known physical processes. The concept of energy conservation was developed by several scientists independently in the mid-19th century, with key contributions from Julius Robert von Mayer, James Prescott Joule, and Hermann von Helmholtz.

Even what we perceive as the "vacuum" of space is not truly empty; it possesses "zero-point energy" arising

from continuous quantum fluctuations. Furthermore, all known fundamental forces—gravitational, electromagnetic, strong, and weak—are mediated by fields or the exchange of particles, all of which inherently embody or carry energy. If an area were genuinely "energyless," devoid of all forms of energy—including kinetic, potential, rest mass-energy (as described by Einstein's $E=mc^2$), *[1]This leisurely research study recommends initiating the publication of a United States Journal for $E=MC^2$ Mandatory Institutional Research ®(GS1US GTIN# 197644979899), entitled, U.S. Journal of Mass–energy Equivalence ®(GS1US GTIN#197644199525).* and even quantum vacuum energy—it raises fundamental questions about how interactions, and thus forces, could even manifest or propagate. While energy acts as a dimension, possibly the fifth or a suitable next, then the hypothetical functions of the predictive theory of energyless space area and the energy-dimensional spacetime framework theory would be internally conflicted and become unimaginably mysterious. However, the essence of settings should have statements in many aspects, just like the groundbreaking theory of prediction; We can't live alone!

If Newton's Third Law were indeed to break down in "Podolsky," it would imply a local violation of the conservation of momentum, a cornerstone of physics that has been rigorously tested across vast scales and conditions. Without the enforcement of opposing reactions, an applied force might theoretically cause unbounded acceleration without any counteraction, leading to scenarios that defy our current empirical and theoretical understanding of physical reality. This hypothesis challenges the very underpinnings of how forces are mediated and how interactions occur, concepts that are universally understood to be energy-dependent in all established physics, from classical mechanics to quantum field theory and general relativity. While the "Podolsky" concept remains a purely theoretical proposal, lying outside the realm of empirically verifiable phenomena or established scientific models, it serves as an intriguing thought experiment. It pushes the boundaries of our understanding of fundamental laws, prompting us to consider extreme, hypothetical conditions under which even our most well-established principles might require re-evaluation or modification. Such conceptual explorations, though speculative, can sometimes ignite new avenues of scientific inquiry.

We also assumed a self-evidential trustness as a theory of prediction to understand its psychohistorical development in-order to develop a theory of prediction in mathematical equation form: "We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness." This enduring prediction relates to the United States Declaration of Independence, Psychohistory Research, and the celestial Universe, as discussed earlier.

I was recently introduced to Dr. Larry P. Arnn, President of Hillsdale College, is noteworthy. He generously advocates for the right to American liberty, which is further intertwined with humankindness lifestyle and the pursuit of happiness, and this also justifies the predictive declaration theory. Possibly the constitutional recognition of the American libertism model (or libertinism) alongside popular libertarianism and organizational liberalism within the framework of American capitalism and their long stories remain beyond thy legacy. The statement "We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness" is a cornerstone of the United States Declaration of Independence. Here, this profound philosophical and political declaration is uniquely framed as a "theory of prediction" to understand its continuing development. In this context, treating a self-evident truth as a "theory of prediction" implies that the acceptance and application of these fundamental principles inherently lead to predictable societal trajectories. For the Declaration, the "enduring prediction" is the expected societal progress and the establishment of a government that upholds these unalienable rights, guiding the nation's historical development through the constitutional laws by which the developments stand. United States Secretary of Energy, Mr. Christopher Allen Wright, said, American Energy is fueled by innovation, not regulation. Artificial Intelligence is the next energy-intensive industry. President Trump is ready to take electricity and turn it into intelligence. However, this concept extends to Psychohistory Research, a fictional field from Isaac Asimov's Foundation series. Psychohistory uses advanced mathematics and the statistical analysis of large populations to predict future historical events, operating

on the premise (promise) that collective human behavior, when based on certain axioms or "self-evident" societal tendencies, can be probabilistically forecasted. The Declaration's truths could be seen as foundational axioms within such a psychohistorical model, shaping the "predicted"development of humanity. I operate General Hari Seldon's Doctor of Philosophy Research Project, which provides PhD-Research academia programs in American/English Poetry under my literature writing title, 'Epic of the United States Vision Tales Trust,' and Christism Study under Hari Seldon's Polygyny Family Household Church Mission and Psychohistory Research — in partnership with Federal Reserve Education and several institutions. Furthermore, the connection to the celestial Universe (as previously discussed) suggests a grander parallel. Just as fundamental human truths might predict societal development, fundamental universal laws (like the laws of physics that explains the govern of cosmos) are "self-evident" in their predictive power once discovered, forecasting the evolution and behavior of the universe itself. This draws an analogy between philosophical principles guiding human society and physical laws governing the cosmos, both serving as "predictive theories" for their respective domains' development. Whereas the cosmic symbol or emblem or banner can be observed evidently that the continuing imagined size and shape of the United (the Universe) is a stripe. For several reasons, throughout psychohistory knowledge, the unseen image of the Universe has been calculated as a stripe: our universe, the United, and the rest, whereas spangled stars of beyond are the source foundation of the cosmic universes.

Stephen Bryen, Senior Correspondent, Asia Times, said, A guiding principle of that new thinking—something that doesn't come naturally. He said a complicating factor is that the competition to acquire new technology, such as artificial intelligence, is dominated by non-defense companies with deep pockets. While defense companies are sometimes chasing the same innovations, there are no assurances they will succeed when outbid by Google, Microsoft, Nvidia, or even offshore corporations. While the U.S. government helps defense companies by underwriting critical research and development, the Defense Department does not assist them with acquisitions of high-tech companies.

Isaac Asimov introduced the concept of psychohistory, but his definitions, theorems, and axioms are fantastic for the present edge, even though he popularized psychohistory as a fictional field of knowledge through his Foundation Series novels. Psychohistory may not be sufficiently assumed to replace or run parallel to science, but the science of psychohistory, including more specifically the mathematics of psychohistory, can be put into institutional research. However, the following synopsis outlines Isaac Asimov's concept of psychohistory: The mathematics of psychohistory is defined as a new branch of mathematical study that predicts the general course of future flow by analyzing the massive actions of large groups of human behaviors — just as the mathematics of geometry is the study of shape, calculus is the study of change, algebra is the study of operations, etc. These math papers includes extraordinary mathematical theories, laws, and equations; for example, "color equations" are used as a predictive identity. I conducted detailed draft research work between 2010 and 2013, and a few more works were concluded later. I wish to publish a psychohistory research book by combining all my work.

My most recent work was an (set of) abstract notes entitled "Machine Learning Humanity's General Course of Predictive Future Flow," which was as follows: Army Materiel Command — AMC Commander Gen. Charles R. Hamilton written and published article in "Advancing the Sustainment Enterprise to Data-Driven Logistics Operations" in Army Sustainment, Volume 55, Issue 4, Fall 2023, a professional bulletin published by CASCOM enterprises "predictive" future operations in the way of expanding capabilities to leverage data analysis power which he called data-driven sustainment operations the way of future humanity. This article addresses a few efficient logistics possibilities to employ future predictions, such as the demand, supply and maintenance of leveraging historical data, advanced analytics, machine learning algorithms, various sources of data integration, optimizing inventory (natural, artificial and mankind), and enabling leaders. Therefore, future predictive studies can achieve data-driven sustained human society. A prime radiant device, Obama, was proposed a few years ago. The prime radiant device is the concept of a machine that learns the prediction of the future of

human civilization mathematically through an analysis of the mass action of human behaviors, which was introduced by Isaac Asimov in his Foundation Series novels. Asimov proposed a new branch of mathematics in psychohistory. Therefore, the predictive future learning machine is a separate electronic-mechanical device with efficient logistics capabilities as its integrated parts. Regardless of Asimov's idea, General Hamilton independently (United States military contexts) asserted the enterprise's outline of data-driven logistics operations achievement to advance the general course of the future flow of humanity.

Conclusion

This psychohistorical exploration reveals how humanity's understanding of the universe, from ancient geocentric models to modern cosmology, has shaped our predictive capabilities. Just as Asimov's psychohistory forecasts societal trends, fundamental scientific principles and even philosophical truths, like those in the Declaration of Independence, act as predictive theories for their respective domains. The proposed "Podolsky" region, while speculative, challenges our understanding of conservation laws, prompting further inquiry. Ultimately, the "United" universe, envisioned as a cosmic stripe with beyond-galactic stars as its foundation, bridges societal evolution and cosmic imagery, continuously expanding our quest to comprehend creation'sboundless nature [3-17].

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