

The SO-FLINE-BEC Model of Universal Origins (1973-2008) Fulfilling the Predictions of Einstein, Descartes, Planck, Kuhn et al.

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In 2009 Stephen Hawking, the world-renown physicist, startled the world of science (Discover, Oct 2009) by his influential, accurate statement: "There was no singularity," a definitive fact of the SO-FLINE-BEC model of universal origins -- and perhaps a death knell for the Big Bang myth. In fulfilling the specific predictions made by Descartes, Einstein, Planck, Kuhn et al., the new model is the only known concept capable of fully complying with these and other authoritative foresights. After 35 years of researched origins, and publications of the Energy Series in ten cumulative editions, the new model is now soundly based on the five laws of planetary motion (FL) that furnish definitive clues to origins and evolution of universal systems: from Void to Energy to Universe in a five-stage sequence of origins (SO), followed by the five-stage evolution of planets (and moons) (IN-E) at rates in accord with mass, while in tune with the five laws, relativity, and $E = mc^2$. The fundamentals of the new model provide a solid foundation for relatively easy solutions to universal anomalies -- just the opposite of the Big Bang myth that makes these solutions unattainable. Each discovery of the space probes continues to further validate the new model.

1. Six Postulates; Definitions and Credits

1. "There was no singularity" (Scarborough 1975, Hawking 2009, *Discover* Oct 2009). This statement is a fundamental factor in the new model of origins.
2. The ubiquitous equivalence of energy and mass through the concept of relativity: $E=mc^2$, attributed to Einstein.
3. The intimate relationship of gas, oil, coal as progressive products of IN and polymerization (E): All planetary matter is created via IN-E (Scarborough, 1973-1979), e.g., H_2O .
4. Three key inherent factors in the new model: (1) the five laws of planetary motion (three by Kepler, two by Scarborough); (2) the self-expanding Earth; and (3) the accelerating rate of expansion of our Universe without the need for dark energy; a momentum-gravity causation.
5. The sequence of origins (SO): Black spheres (space-time energy at absolute-zero temperature) via Bose-Einstein-Condensate (BEC) into noisy quasars, to galaxies with solar systems, followed by the five-stage evolution (E) of planets, moons, comets via internal nucleosynthesis (IN) (Scarborough, 1975-2008).
6. The new macrocosm unveils sophistry in the Big Bang/Accretion (BB/Ac) hypotheses, while fulfilling predictions by Descartes, Einstein, Planck, Kuhn et al.

2. Background and Introduction to a Revolutionary Model

During my boyhood years in the 1930s, the burning of coal in the fireplace gave fascinating clues to the close relationship between gas, oil and coal. But these observations were put aside until 1973, when time and my chemical background permitted that close relationship to become crystal clear in my mind: from atoms to gas to petroleum to coal. For these ongoing processes, there had to be an energy core to continually supply the atoms comprising all matter of Planet Earth: an energy core that drives

ongoing evolution (E) via internal nucleosynthesis (IN). IN and E are inseparable and ongoing. [1,3-4,10]

But how did Earth -- and all planets, moons, comets -- get its energy core that supplies all its matter, and thereby drives its evolution? And why such big differences among solar system formations as well as among their planets?

Throughout the 35 years of research, *it was obvious that the Big Bang could never supply any definitive answers to questions about origins, due to the impossibility and impracticality of a singularity and the obvious necessity of ongoing creation of atomic matter via IN-E.* [6-7,10]

Although Einstein recognized his lack of understanding the origins and functions of our Universe, he did make an accurate prediction indicating his confidence in future discoveries: "*When the right answers are found, they will be simple and beautiful.*" As will be seen, he could have added: *Definitive solutions to anomalies will become obvious.*

In 2009 Stephen Hawking, the world-renown physicist, startled the world of science (*Discover*, Oct 2009) by his simple, but influential and deadly accurate statement, "There was no singularity," a definitive fact that should become the death knell for the Big Bang myth, an historical statement, the very heart of the SO-FLINE-BEC model of universal origins, one that does supply definitive answers to previous questions.

In order to displace the Big Bang, according to Thomas Kuhn, there must be a valid scientific concept to replace it. [2,10] Planck stated that such a change could happen only after the old guard dies off.

The definitive SO-FLINE-BEC model of universal origins is the only known concept capable of fully complying with the previous authoritative statements. [10]

Such a model warrants close vetting by the scientific community with an eye towards finding some fault that may have

slipped past the author. If – as in the past 36 years – none can be found, the foresight of Einstein, Hawking, Planck and Kuhn will each have been proven right.

The five laws provide crucial clues to the dynamic origin of our Solar System and, subsequently, to the many weird exo-solar systems with their mysteriously spaced planets, an anomaly that has defied substantiated solution to origins via any known concept other than the author's revolutionary SO-FLINE-BEC model of ongoing universal origins (1973-2008), which includes the accelerating rate of expansion of our Universe (with no need for dark energy) – a momentum-gravity causation. [6-10]

The fundamentals of the new model provide a solid foundation for relatively easy solutions to universal anomalies – just the opposite of the Big Bang myth that makes these solutions unattainable. [10]

The structural integrity of the revolutionary SO-FLINE-BEC model resides in the fact that *each of history's epoch-making discoveries – from Pythagoras to modern-day scientists – plays an integral role in its proclivity for definitive solutions to universal anomalies.* [9-10]

The plethora of definitive evidence supporting the new model transports readers from void to energy to universe in an ongoing five-stage sequence (SO): from void to dark energy (spheres, a.k.a. black holes) to noisy quasars to galaxies to a huge variety of billions of hot solar systems. From here, each planet and moon undergoes a five-stage evolution: from Energy mass to Gaseous to Transitional to Rocky (e.g., Earth) to Inactive (dead), all at rates in accord with mass, plus distance from a central star. Universally, all planets, spherical moons, and stars are *self-sustaining entities that create their own compositional matter via internal nucleosynthesis (IN and E are inseparable).* [10]

One of the best examples is our own Solar System of 10⁺ original planets (now nine⁺ since the disintegration of Planet Asteroids (Olbers, 1802). Its five laws of planetary motion (FL) reveal definitive clues to its dynamic birth some five billion years ago and to the significant orbital changes since then, thereby making it *relatively easy to comprehend definitive solutions to anomalies of solar systems and their planets (and moons), and therefrom, the five-stage sequence of ongoing origins and functions of universal systems (SO).* [9-10]

Another of the best examples of solutions to anomalies is the accelerating rate of expansion of the Universe inherent in the SO-FLINE-BEC model without the need for dark energy to push it along – just the opposite of Big Bang predictions. Black holes (space-time) formed via BEC at absolute-zero degrees temperature at the perimeter of the expanding Universe supply the energy and momentum essential for maintaining origins, functions and expansion of universal systems. The recent discovery of *water on our moon* -- as all relevant space-probe findings continually do - *definitively confirms the model's scientific validity.* [10] As it has done for billions of years, *Earth continuously produces its vast volumes of water (IN-E) that surface via volcanic actions, hot and cold springs, and black smokers circling the globe in a pattern much like the seam around a baseball.*

On April 3, 2010 a TV video based on Big Bang beliefs stated that Earth's greatest mystery is the source of its huge volumes of water. They believe water was in the meteoric rocks that coalesced to form the planet – an example of unfortunate misinterpretation of data. Substantiated evidence in the new model clearly reveals the ongoing source: Planets are self-sustaining

entities that create(d) their own compositional matter; Earth continues to create its water via IN-E.

On April 8, 2010 TV Station NGE0's science program featured another search to solve the mystery of the Tunguska explosion in 1908. The team concentrated on proving it was caused by an asteroid.

However, the evidence still pointed to the nuclear explosion identified decades ago by Russian experts; there was no evidence to contradict this conclusion or to favor an asteroid impact.

Data from all three expeditions, when interpreted in perspective of the SO-FLINE-BEC model, indicate a nuclear explosion of a fireball ejected from within Earth; i.e., a typical comet: fireballs ejected from larger masses of nuclear energy. Comet SL-9 (Jupiter, 1993-1994) is a typical example. Now in the 4th stage of evolution, Jupiter's Io is another example of ejecta.

On April 22 and April 25, 2010, TV science programs featured an abrupt historical change in direction of scientific beliefs about universal origins and evolution. The Big Bang was modified via elimination of its singularity, replacing it with vivid speculation that the Universe began with an extremely rapid explosiveness that created all universal energy, which later transformed into atomic and molecular matter that, still later, accreted and coalesced into universal systems.

This is an excellent example of Thomas Kuhn's prediction of such tactics – while ignoring Einstein's prediction: "The right answers will be simple and beautiful."

Eliminating the singularity should be only the first phase of scientific progress. The remaining phases are clearly revealed via the SO-FLINE-BEC model of universal origins and evolution that makes it easy to fulfill Einstein's prediction.

One caveat remains: The new model inadvertently unveils the sophistry of the Big Bang/Accretion hypotheses, thereby placing science at the crucial Galilean-type crossroad to a sudden change in direction of scientific thought – historically a difficult choice.

3. A Very Brief History of the SO-FLINE-BEC Model

The definitive solution to the fourth and fifth laws required three sets (seven total) of precisely graphed geometric diagrams (orbital velocity vs. distance from Sun) completed in 1995, 400 years after Kepler's first attempt in 1595. However, for the next ten years of presentations (mostly poster sessions) at several scientific organizations (e.g., AAAS, GSA, AGU, NPA, etc.), the two laws remained unwittingly combined in one brief statement. By working with Dr. Bob Heaston, a brilliant member of the NPA organization of international scientists, we were successful in separating the two laws and wording them in Kepler's style of writing. [6-7,9-10] Excerpts from Heaston's letter to me:

"Here is an interesting quote from the 2005 CD on the Encyclopaedia Britannica under 'Kepler':

"It may be noted that Kepler's laws apply not only to gravitational but to all other inverse-square-law forces and, if due allowance is made for relativistic and quantum effects, to the electromagnetic forces within the atom." [10]

"You may have discovered more than you realize. I gained a greater appreciation of your efforts when I read your three papers and summarized them.

"Thank you for mentioning me in your press release.

"Sincerely,



"Bob Heaston"

During the past 35 years, definitive pieces of the puzzle of universal origins began falling into the interlocked sequence of events. The transformation of space-time into black energy at absolute-zero degrees temperature occurs at the perimeter of the expanding global Universe, followed eventually by eruptions into billions of brilliant fiery stars embedded in hot, gaseous dust-clouds packed in close formations as noisy quasars. After the initial birth pangs of galaxies, they later form their curved arms loaded with a variety of billions of fiery solar systems. The smaller masses orbiting a larger mass eventually evolve into planets and moons [6-7,9-10].

From 1975 to 2008 the SO-FLINE-BEC model of universal origins and evolution developed into a definitive sequential concept growing ever stronger with each confirmation of its predicted discoveries by space probes (e.g., water on our moon, and the 21 powerful explosions of Comet SL9 fragments at Jupiter's thin cloud-tops in 1994 (Cumulative Energy Series) (1973-2008). In the write-in contest, my prediction of the powerful nuclear explosions was the only correct one; it was based on the true nature of comets: small fireballs ejected from larger masses of energy [10].

Planetary rings are good examples of ejecta from their central planet. Observational evidence by space probes reveals that planets go through this event at rates in accord with mass. Saturn is at its peak time, while Jupiter's faint rings are in the very early stage of formations.

Smaller planets of our Solar System now have smaller, if any, remaining rings; they fall back onto each respective planet "in accordance with natural laws governing decreasing rotational speeds and the gradual decreasing of centrifugal forces." [5,10].

For too many decades and too many billions of taxpayer dollars, the Big Bang myth has forced, and still forces, scientists into ludicrous misinterpretations of excellent data. Where interpreted via the SO-FLINE-BEC version that same data reveal substantiated solutions to universal anomalies; solutions as simple and beautiful as Einstein predicted they will be.

4. BEC-SO-FLINE Model: A New Theory of Everything?

With the lack of sleep last night came thoughts of all things in common with the sequence of origins (SO) and evolution (IN-E) expressed in the new model. The list continued to grow, uninhibited by any opposition to the idea of Nature's plan to pattern all things in similar manner to the way universal systems originate and evolve.

The first stage, as in the SO, entails an ongoing source of origin and energy to begin the cycling objects in question, inclusive of all inanimate and animate beings; i.e., beginnings via seed or birth, initiating the first stage of a five-stage evolution, the last being death. The second, third and fourth evolutionary stages demand and get water via Earth's internal energy source (IN-E). With water and energy, internal processes within bodies assure

survival of both the animate and inanimate systems in full accord with the FLINE model. "Thus everything is indeed connected to everything else." (J. Muir)

5. The Gulf Oil Crisis of 2010

Since the energy crisis of the 1970s, the knowledge of how Earth creates its hydrocarbon fuels (gas, oil, coal) is well documented in the annals of scientific history. Although not well publicized, many people have learned that the three fuels are intimately related and that "fossil fuels" is an obsolete misnomer.

The three fuels are generally layered in Earth's crust, with oil and gas mixtures at moderate depths; the deeper the drilling, the larger the ratio of gas to oil, and the higher the temperature and pressure in closed systems. Polymerization is a function of time as well as temperature, pressure and chemical variables. And therein resides the problem in the Gulf oil situation.

At the depth of about 19,000 feet below sea level, these conditions apparently exceed the capability of the safety equipment to prevent the blow-out. BP knows that pressure diminishes over time, thereby increasing the chances to plug the oil well. But that might remain a problem if the gas pressure is sustained by an inflow of virgin gas from a connected source. Clearly, a larger safety margin must be built into the blow-out prevention system.

6. Conclusion

During its four decades in the making, the new model produced significant numbers of definitive solutions – simple and beautiful – to a variety of universal anomalies that should assure its scientific validity in the annals of history.

In contrast, the research failed to reveal even one definitive solution offered by the prevailing Big Bang concept.

When the SO-FLINE-BEC model is understood, the absurdities of the Big Bang simultaneously become crystal clear.

Comprehension of the new model brings Big Bang absurdities sharply into focus, and smoothly paves the way to definitive solutions to universal anomalies.

The Big Bang is only a matter of conjecture, not of reality. Unlike the new model, it can never be corroborated by definitive evidence – for obvious reasons.

The statement raises critical questions: Will the six postulates prove sufficient to overcome the caveat of doubt by science and the news media? Will they provide reason enough for scientists and news media to investigate the viable alternative predicted by Kuhn and Einstein: the SO-FLINE-BEC model of universal origins and evolution?

If the answers are in the affirmative, scientists will benefit immensely via the macrocosm the new model provides: the principles essential for definitive solutions to all anomalies of planets, solar systems, quasars, galaxies, black holes (a.k.a. spheres), and their interlocked relationship as functions of universal systems.

1. The Big Bang myth is an example of a classic and costly study in futility. It is the most tragic and costliest concept in the history of science; it does not meet specifications for a valid scientific theory, and retards scientific knowledge.
2. "Hawking argues that the universe did not start as a singularity of space and time, so when looking back there is no point

at which the laws of physics could have broken down," [the editors respond: *Discover*, Oct 2009, p 7]... - a death-knell for the Big Bang myth. If heeded, knowledge of universal origins should advance rapidly. Give credit to the open-minded philosophy of the NPA, an organization of international scientists seeking validated truth in science

3. The SO-FLINE-BEC model of universal origins opens the floodgates to definitive solutions to universal anomalies - solutions unattainable via the Big Bang-Accretion hypotheses. Keep in mind that "Microcosm repeats macrocosm." (T. Huxley).
4. Ten examples of some of the substantiated solutions during 35 years of research:
 - a. The fiery origins of solar systems.
 - b. Planets (and large moons) are self-sustaining entities that create(d) their own compositional matter; e.g., water, land.
 - c. Planets (and large moons) undergo five observable stages of evolution: energy mass - gaseous - transitional - rocky (e.g., Earth) - inactive.
 - d. The five laws of planetary motion reveal the fiery origin of our Solar System, the geometric spacing of planetary orbits, and the reasons for small changes in these orbits.
 - e. The expanding Earth - a stage all planets go through via IN-E.
 - f. The expanding Universe without the need for dark energy - due to a momentum-gravity causation.
 - g. The fiery nature and source of comets.
 - h. The two moons (Phobos and Deimos) are shells of burned-out comets.
 - i. Almost all cratered surfaces of planets and moons are results of ejecta rather than impact craters (Allan Mills, 1950).
 - j. Planet Asteroids remnants are results of a disintegrated planet (Olbers, 1802).

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