Physics and Math Boxes

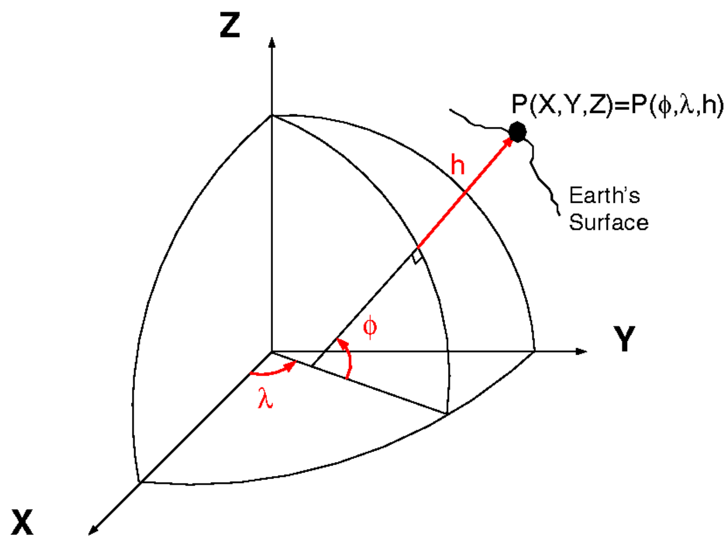
By: Clark M. Thomas

Abstract

In physics there are several recognized boxes. A famous box is the "cat-in-the-box" that helped weirdly launch Quantum Mechanics theory. Classical physics enjoys intersecting Cartesian boxes. Classical models exist because experimental physicists need to replicate what seems beyond their measurable dimensions. Unknown unknowns remain elusive, and potentially fatal to any physics model. Fundamental errors can apply both to physics-math boxes, and to purely mathematical boxes. How can we look honestly beyond our local bubble universe's apparent physics boxes, to model all potential 4D physics phenomena within the 4D multiverse? The multiverse itself is like a seemingly endless physics "box" enclosing all other limited physics boxes. With all the competing complexities, there is only one emerging TOE paradigm that embraces it all.

Boxes in daily life and in formal science vary greatly. All measurable boxes that we recognize have perceived dimensions, and all such boxes help make our existential lives *appear* simpler than they are. Boxes can hide out inside other boxes to some degree. It is up to our best measurements, and even to our imaginations, to correctly perceive encountered box types. Proposed boxes beyond real four dimensions, existing only inside our clever minds, distort our honest ability to envision dimensional realities. Boxes of all types are both enhancers *and* limiters of scientific knowledge.

We often incorrectly envision Cartesian solid geometry boxes as 3D rectilinear forms, with flat 2D planes, straight 1D lines — and zero-dimensional intersecting points where two horizontal and one vertical (X,Y,Z) lines and planes meet. However, the real 4D vector world is not pure linear math, which means that nearly all real boxes are not cubical. Even human cultures are boxed in historical time.



Earth is an example of a "box" that intuitively doesn't seem like a box.**[1]** Earth is dynamic, and is not a perfect sphere. Going down toward the moving mathematical center of our Earth would be absurd. This physics reality did not bother our science-limited, flat-earth, ancestral astrologers.

General Relativity (GR) gravity math for over a hundred years has been a *somewhat correlating and somewhat congruent* expression of *multiversal push/shadow net gravity* at *intermediate* dimensional scales.**[2]** Real net gravity, as opposed to countless spacetime gravity sheets, has nothing to do with delusional GR at any scale. Real physics gravity has everything to do with *net multiversal, omnidirectional flows* of individual y/y particles, including very short, high-frequency, beaded y/y strings, all of which constitute the misnamed quantum sea. Whereas GR is heavily indebted to spacetime countless boxes with fake math, real omnidirectional, multiversal gravity elegantly transcends the antique voodoo.

In the Earth math illustration above, the center "point" intersection appears to have a zero Euclidean dimension. That's OK for pure "Zeno math" **[3]** and fantasy solid geometry. However, it does not indicate how real *physics math "points" are three dimensional*, reflecting how *the smallest real physics entity everywhere is one yin/yang Coulombic-electromagnetic sphere at about 10^-38 linear meters*.

For comparison, one y/y sphere is 20 such linear *dimensions* smaller than a subatomic quark inside atoms. Each composite quark is 18 such linear *dimensions* smaller than one human body at the arbitrarily set zero point. Even ghostly solar neutrinos that easily zip through the entire Earth are about negative 24 linear metric dimensions, which is about 14 linear dimensions larger than the true smallest physics entities that can do the same.**[4].** One adult human is about 24 linear dimensions larger than one neutrino, which is still a very long way from directly imaging individual y/y velocity spheres.

Isolated spinning yin/yang spheres prefer to be perfectly spherical. Their interactive matter/energy vectors within the *so-called dense quantum sea* often have them *briefly* elongating like hen eggs when juxtaposed. Coulombic EM attraction, in tension with centrifugal, rotating and spinning wave-frequency vectors — while *launching* short, beaded, y/y strings — *yields short photonic waves* we cannot now directly measure.

Such photonic energy we call "dark," but it is actually the most brilliantly powerful *unitary* force outside the range of our sensing tools. One exploding hydrogen bomb has more total released photonic energy than potentially does one primary y/y sphere. This is why even a supercollider cannot release any y/y primary energies, which is a good thing. Released yin/yang energy within the *correct type* of black holes is what it takes to start a new local big bang, itself another expanding, local-universe, physics box.**[5]**

A vibrating dense cluster of spinning yin/yang spheres can be a photon-launching source, sometimes known as a *graviton*. The equal-speed release of very-high-frequency photons is always at "c" velocity in a soupy as-if "vacuum." I discovered and described how this centrifugal launching "speed limit" works eight years ago.**[6]**

The smallest physics entity (singular matter/energy EM spheres) is within the Planck zone, where short-beaded strings are *supposed* to behave as quanta, not classical entities. *Beaded chains in all dimensions are "classical"* in combination, even if the smallest seem to be quanta due to our weak measurement powers. That's how *photonic beaded strings of various wave lengths emerge dialectically from the seeming quantum world into the measurable classical. Quantum and classical physics are not fundamentally different fields, just a measurement error.*

The elusive quantum/classical dilemma is our *inability to verifiably measure frequencies of* all of the smallest physics dimensions, and not a split in Reality itself between quantum and classical. Our scientific failure to perform is thus not a justification for weak math theories. This elegant equivalence is a key to any general Theory of Everything (TOE). In sum, the grandest *beaded field* elements of the vast 4D multiverse are dialectically composed of the smallest spherical EM units.

Everyday language is loaded with implied understanding of how "God" structures our world. Any study of Spanish or Arabic, for example, will reveal the strong cultural boxes built into how we verbally perceive proper order. Cultural cognitive models are neither good nor bad in the absolute, but their cultural baggage is a factor when we philosophically envision the universal elements within each linguistic zeitgeist.

"Cultural math" relies more on historical superstition than measurements. The gods are seen as essentially outside our 4D world, even when they intersect with everything inside our physical dimensions. Aristotle spoke of the "unmoved mover," which was his idea of math without mantras. In theological game theory mystical divinity provides the ultimate cheat codes for us to discover who we are.

In games, as in real life, *solving an imaginary problem solves nothing*. Within games, their world can be easily reset. Within the real world, not so. Solutions to fake problems distract from solving real problems. For too long lazy science has been by default in charge of moving most *as-if* verifiable knowledge forward. Emerging 21st-century science demands a higher level of wisdom that cleanly transcends tribal gods and gerbil paths. Indeed, our continuation as the only global hyperkeystone fleshy species depends on our full scientific honesty.**[7]**

At the same time, there will always be an honest role for mysticism, such as in the Nichiren Buddhist concept of **myoho***, the mystical law of life.* This mystical law tightly *blends with* another reality, ***renge****, the simultaneity of cause and effect.* Emerging 21st-century physics embraces *renge* inside the smallest linear dimensions, and still does not reject agnostic aspects of multiversal *myoho* we cannot fully comprehend, as long as it *seemingly* makes sense, or at least does not self-contradict.

Everyday boxes can be physical or mental containers for things humans think are worth boxing up. Boxing can be a verb, as in the verb boxing, within the (noun) sport of boxing. Getting boxed in while driving in traffic can be awkward or dangerous. This motley list could be long, but the point is made: We live inside many boxes of our making. Several other social species have their own versions of boxes. Indeed, fanciful human boxes of many types have helped human societies shape the global biosphere itself to optimize our local fancies. Nevertheless, with rapid global heating many of us may cluelessly join that metaphorical frog in a laboratory beaker.**[8]**

Einstein's 4D General Relativity has early 20th-century ideas of causality, formed by insufficient data from his earlier Special Relativity. Even worse, GR was insufficiently formulated based on the idea of uncountable boxes of "spacetime," not a cohesive understanding of space relative to all observers.

Antique weak understanding of velocities, and even the speed of light, has now led to its being challenged by embellished field gravity theories. QM goes back to Max Planck and even the early Albert Einstein. That was over a hundred years ago. More recent Quantum Field Theory (QFT) is not any better, but the crazy 2D math is fun.**[9]**

We could say that Einstein is this era's virtual Claudius Ptolemy (who bewitched astronomers with his circles-within-circles boxes for 1,200 years). Many established astrophysicists remain de-facto neo-Ptolemaic, substituting cute correlating math models for authentic causality.

It is therefore incumbent on real 21st-century physics and astrophysics to help refine the authentic, emerging Theory of Everything. Henceforth, we will need to significantly refine our qualitative experimental and inferential tools. AI alone will not do it for us.

References

[1] https://geodesy.noaa.gov/TOOLS/XYZ/xyz.shtml

[2] https://astronomy-links.net/DipoleRepellerExplained.pdf

[3] https://astronomy-links.net/zenoandsufis.html

[4] https://astronomy-links.net/neutrinos.and.photons.pdf

[5] https://astronomy-links.net/BB.BHs.pdf

[6] https://astronomy-links.net/LightSpeed.pdf

[7] https://astronomy-links.net/great.filter.theory.pdf

[8] https://astronomy-links.net/Boiling.Frogs.pdf

[9] https://astronomy-links.net/Hawking.legacy.pdf