

The Anthropic Cosmological Timeline Is Basis for The Science of Nonduality*

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Abstract: The Anthropic Cosmological Timeline (ACT) is the now-origin logarithmic timeline of all possible times past: from the Planck time, through the photon-proton transit time and the heart beat, to the Big Bang. ACT turns conventional cosmology inside-out and depicts an observer-centered universe. Conventional cosmologists prefer Big-Bang-origin timelines that avoid the "anthropomorphism" they eschew. However, now-origin timelines are equally valid, and the logarithmic version expands the moments past but closest to now.

Initial analysis of the ACT reveals a number of unexpected features:

- Fully 2/3rds of cosmic time scales lie within our bodies with the "outer world" comprising the remaining 1/3rd. This is a decidedly "embodied cosmology."
- Delimited by the range of electromagnetism in the middle, we note three nested domains of time spanning ~20 orders of magnitude each: outer, inner, & innermost. Within each we find predominance of a distinct kind of:
 - experience: outer environment, living body-mind, non-local form;
 - structure: material, energetic, informational;
 - system: dissipative, autopoietic, reflexive;
 - mathematics: (e.g., the algebras) complex, quaternion, octonion;
 - geometry: fractal, non-commutative, non-associative;
 - orders of intrinsic complexity: complex, hyper-complex-one, and hyper-complex-two.

Finally: we discover that the ACT does not portray "history." Rather, all three domains are always arising simultaneously--nested in every Planckian instant as a cosmically entangled non-reducible event arising within a timeless context. Thus life experience is a vast flow-ensemble of such Planckian instants. ACT is thus a non-dual scientific cosmology and a foundational framework within which a scientific revolution may unfold--a novel cosmology within which matter, energy, space, time, life, mind, self, and consciousness may all find a technical alignment.

The Big Bang echoes in the body, here, now. The heart beat entrains the body, here, now. The apparently "separate self" arises in the heart, here, now; in the non-dual space of timeless awareness.

Video (153MB 38min [stream](#), [download](#)), [MP3 \(12 MB\)](#), [Slides \(pdf\)](#), [transcript \(pdf\)](#)

Notes & Corrections:

*To my knowledge, the term "Science of Nonduality" was first used by Kent Duane Palmer in 2005 in his working paper "[Is a Science of Nonduality Possible?](#)" I should have credited Kent for this at the very start of the presentation—I have added this on the revised version of slide 1.

I make several references to Kashmir Shaivism at the beginning and end of the presentation. The preceding speaker, Ralph Abraham, had made reference to this tradition in his talk and in only the past year, since my webmaster Wolfgang Saumweber first pointed me to [The Yoga of Kashmir Shaivism](#) by Swami Shankarananda, have I come to appreciate that *all three of my teachers* have lineage ties, albeit obscured over the last millennium, to this important tradition.

Be sure not to miss the exquisite comment (#3) made by Louis H. Kauffman near the end of the Q&A session—comes at around 32:00 in the recordings.

Corrections:

- Near the beginning of the presentation I refer to ACT as representing a "full-spectrum vibrational theory." I misused the term *theory* here—I should have said "view" or "approach."
- 100-fold change in the age of the Big Bang would result in a move of two notches on the ACT, not one—each is a power of ten. I misspoke.
- I frequently use the term "scales" when what I mean to say is "size scales."
- In the discussion about the Innermost domain, I often leave off the –most. This confuses the distinction with the Inner domain and is to be regretted.