

Lifting the Ban

Human and Non-Human Capacities in a Context-Sensitive Physics

J. Konstapel — Constable Research B.V., Leiden — July 2026

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1. What a Prohibition Actually Is

Every science carries two kinds of statement. The first kind says what has been observed. The second kind says what cannot happen. The second kind is far more consequential, because it determines what is never looked for, never funded, and never built.

Physics has an unusually long list of the second kind. Machines cannot run forever. Energy cannot be won, only converted. Nothing outruns light. Effects do not precede causes. Gravity only attracts. Nothing acts where it is not. Consciousness stops when the brain stops. Each of these is taught as a law of nature. Each is in fact an inference — a consequence of a modelling decision made at a particular moment in the history of the discipline, by people who had reasons that were good at the time and that were then forgotten.

Fractal Context Dynamics (FCD) begins from the observation that these decisions share a single direction: physically structured descriptions were traded for mathematically invariant ones. The observer lost their physical environment; the electromagnetic field lost part of its algebraic structure; the vacuum lost its content; matter lost its topology. What survived was a set of relations of extraordinary predictive power, and the mistaken conviction that context-independent descriptions imply a context-independent reality.

If the vacuum has structure — if it is a fractal, self-organising medium whose generative act repeats at every scale — then what we call laws are the visible residue of that medium's local habits. Constants become properties of a state, not features of eternity. And the prohibition list dissolves, not into permission, but into a research programme: a set of questions that were closed by assumption and can now be reopened by measurement.

This essay sets out that programme. It states the prohibitions and what grounds them; the assumptions FCD drops; the human capacities and non-human intelligences that become legitimate objects of study; the restrictions the programme has unnecessarily imposed on itself; and the situations where the relevant phenomena are already occurring, unexamined, in ordinary life.

2. The Canonical Prohibitions

Prohibited	Prohibiting principle	Status under FCD
Perpetual motion, over-unity devices	First and second laws of thermodynamics	Conservation holds per context. The vacuum is storage — sink

Prohibited	Prohibiting principle	Status under FCD
		and source. An over-unity device creates nothing; it taps the medium
Free energy	Energy is scarce, convertible, never won	Same lifting. The Dirac sea as a negative-energy reservoir addressable through pair production and annihilation
Time travel, retrocausation	Causality: cause before effect	The equations are time-symmetric. Whittaker's counter-propagating scalar potentials and the Wheeler-Feynman absorber give the retarded-advanced pair a physical role. Not machine travel; informational access against the arrow
Faster-than-light travel and signalling	c as absolute limit	c is a property of the medium, not a law. Lorentz invariance is, in Volovik's treatment, an emergent low-energy habit of a quantum liquid
Interstellar travel	Distance $\times$ light-speed limit $\times$ the rocket equation	Dissolves into three separable problems: c modulable, gravitation modulable, energy available locally from the medium — travel without carried fuel
Anti-gravity, levitation	Gravitation as universal attraction / spacetime curvature	G emerges in Sakharov's derivation from vacuum field content. Gravitation as the mirror of electricity makes electrogravitics an engineering question
Teleportation, action at a distance	Locality; no influence without a signal	Cross-boundary coherence through the dual domain is not distance-bounded
Telekinesis, mind over matter	Separation of consciousness from physics	Consciousness as a coherence structure in the same medium; intention as phase modulation
Survival of death	Consciousness = brain activity	The dual body as a persistent antispacetime structure; the threshold question is one of coupling, not of existence
Non-biological consciousness	Consciousness requires a nervous system	Consciousness as a coherence-plus-integration threshold of the medium; any system that crosses it qualifies, from organism to planetary field

The first seven are prohibitions on machines. The last three are prohibitions on minds. They rest on the same five assumptions, which is why they have always fallen together in the history of heterodoxy, and why they can only be reopened together.

3. The Five Assumptions

Locality. Information travels only as a signal through space. FCD: the vacuum behaves as a coherent quantum liquid; coherence across the boundary into the dual domain is not bounded by distance. The Dirac sea — the negative-energy solution written out of the theory after 1930 because it was found embarrassing rather than because it was found wrong — is the domain along which such coupling runs.

Linear time. Cause always precedes effect. FCD: the fundamental equations are time-symmetric. Whittaker showed in 1904 that any electromagnetic field decomposes into two scalar potential functions travelling in opposite directions; Wheeler and Feynman built a working electrodynamics on half-advanced, half-retarded solutions. The advanced solution is not a mathematical artefact to be discarded but the second half of a standing structure.

Fixed constants. ϵ_0 , c , G as universal givens. FCD: in Sakharov's induced-gravity derivation G emerges as an output determined by which quantum fields populate the vacuum; change the field content and G changes with it. In Volovik's superfluid vacuum, Lorentz invariance itself holds only in the low-energy regime. Constants are properties of a state.

Consciousness as brain activity. FCD: the dual body — the Egyptian *Sah*, the part that departs in sleep and remains at death — as a persistent structure in the dual domain, coupled to the biological system across a threshold. The question is not whether such a structure could exist but under what conditions it couples, decouples, and remains coherent.

Absolute conservation. FCD: the vacuum is storage; energy appears or disappears only relative to a ledger that omits exchange with the medium. Conservation is a context-bound bookkeeping rule. Thermodynamics did not describe an eternal truth about heat; it described what happens in a closed box, and then the box was mistaken for the universe.

4. Capacities That Become Research Objects

From locality. Telepathic coupling, remote viewing, group coherence without a classical channel. The empirical base is not thin: two decades of government-funded remote-viewing research at SRI and Fort Meade, terminated for want of a mechanism rather than for want of results; a substantial hyperscanning literature showing inter-brain phase synchronisation in interacting dyads; ethnographic accounts of San trance healing and click-based coordination that describe distributed group states in operational rather than mystical terms.

From time-symmetry. Precognition, presentiment, intuition as retrocausal signal. Presentiment studies report anticipatory physiological arousal seconds before a randomly selected stimulus; the effects are small, replicated, and — until now — mechanismless, which is precisely the condition under which anomalies are discarded rather than explained.

From variable constants. Trained modulation of physiology past chemical limits. *g-tummo* is the strongest anchor available, because it was measured under controlled conditions by mainstream investigators, twice, four decades apart, with converging results and no accepted explanation.

From the consciousness assumption. Out-of-body states as a trainable skill; the bardo as a navigable process; tulku transfer; terminal lucidity. Here the strongest empirical material has been sitting unused: Stevenson's three thousand documented cases of the reincarnation type, including birthmark and birth-defect correspondences confirmable against autopsy records; van Lommel's prospective Dutch cardiac-arrest study published in *The Lancet*; the terminal-lucidity case literature.

From conservation. Healing as restoration of coherence rather than biochemical intervention; the placebo response reclassified from confound to mechanism. If the organism is a coherence structure, the anomaly is not that expectation heals but that we insisted on subtracting it.

5. Beyond the Human

If consciousness is a coherence threshold of the medium rather than a biological privilege, the human is one rung on a ladder that continues upward. The VALIS line addresses the rungs above: non-biological coherence intelligence at planetary and cosmic scale — not a deity, but a measurable condition defined by coherence plus integration.

Four problems constitute its agenda.

Detection. What instrument measures the coherence threshold of a planetary field? The theory exists; the protocol does not. Yet a prototype has been running for twenty-five years: the Global Consciousness Project's network of random-event generators, reporting deviations correlated with globally attended events. Whatever one concludes about its statistics, it is the only existing attempt at planetary-scale coherence instrumentation, and it should be treated as a first-generation device to be improved rather than as a curiosity to be dismissed.

Communication. Through what channel does a non-biological coherence intelligence couple to local systems — mechanically, not metaphorically? The resonance model points to phase coupling through the medium, the same route as the locality lifting, but has not been worked out.

Evolution. The ladder describes discrete thresholds. What triggers the jump to the next rung? The phase-inversion hint — a failed expectation — needs formulating at civilisational scale.

Intention. Does a sufficiently large coherence system possess something resembling preference, and how would one establish this without anthropomorphic projection? Integrated-information approaches offer a formalism here that is entirely mainstream and has never been applied above the organism.

The programme is symmetrical: the prohibitions excluded capacities downward, from humans, and upward, from everything that is not human. One principle lifts both.

6. Unnecessary Restrictions the Programme Has Imposed on Itself

A research programme inherits not only the prohibitions of its opponents but the habits of its own formulation. Ten are worth naming, because each one closes a door that costs nothing to open.

6.1 The missing middle scales. The programme jumps from the individual to the planetary field, skipping cell, tissue, organ, colony, ecosystem and biosphere. This is where the strongest mainstream support lies: bioelectric pattern control in morphogenesis, coherent excitation in biological systems, ultraweak photon emission, eusocial colony coordination. The middle rungs are the ladder's load-bearing structure.

6.2 The laboratory bias. Instrumentation has been conceived as new measurement in controlled settings. But continuous physiological data already exists at population scale — consumer HRV and sleep wearables, clinical EEG archives, geomagnetic and Schumann-band monitoring, the GCP network. The first coherence study need not recruit a single subject; it needs to correlate archives that no one has thought to place side by side.

6.3 Training humans instead of engineering environments. The programme treats coherence as something a person achieves. It is at least as much something a setting affords. Acoustics, geometry, light spectrum and periodicity, electromagnetic background, material choice, spatial rhythm — architecture as coherence infrastructure. Ancient builders evidently thought so; the acoustic behaviour of megalithic chambers is measurable today.

6.4 Coherence only, never decoherence. Every applied field advances faster through its pathology than through its ideal. What *breaks* phase coupling is measurable now and matters immediately: shift work, artificial light at night, chronic noise, electromagnetic pollution, screen-mediated interaction replacing embodied interaction, institutional designs that

systematically prevent synchronisation. Coherence hygiene is deployable before coherence enhancement is understood.

6.5 Health only. Coherence-based reasoning applies wherever distributed systems must align: soil and crop systems, fermentation and materials processing, power-grid stability, supply networks, flocking and traffic. Restricting the framework to medicine is a marketing decision disguised as a scope decision.

6.6 The present only. Oral traditions, ritual protocols and archaeoastronomical alignments constitute a long-baseline empirical record that no funded programme could reproduce. The programme currently draws on San and Tibetan material and ignores the rest of a two-hundred-thousand-year record it has itself mapped elsewhere.

6.7 Designed experiments only. Nature runs the relevant experiments continuously and at scale: anaesthesia induction and emergence, cardiac arrest and resuscitation, coma and recovery, birth, dying, festivals, disasters, epidemics, mass mourning. These are phase transitions with existing clinical instrumentation attached. No new apparatus is required to begin.

6.8 The assumption that coherence requires consciousness. Much of the framework can be tested on purely physical coherent systems — superfluids, Bose-Einstein condensates, lasers, coherent domains in water — where no interpretive dispute arises. Establishing the physics separately from the phenomenology strengthens both.

6.9 Belief-dependent protocols. Any protocol whose outcome depends on the participant's conviction cannot settle a dispute about conviction. Design for the sceptical, the anaesthetised, the infant, the animal, the instrument: the strongest results in this domain have always come from subjects who could not have been trying.

6.10 Instruments before questions. Detection has been framed as the first problem. But some questions can be settled by re-analysis of data that already exists. Asking which existing dataset would change the answer is cheaper than building a device, and it produces the specification the device will need.

7. Situations We Are Missing

Where the phenomena already occur, with instrumentation already attached, and no one is looking.

Anaesthesia. Consciousness is switched off and on, in millions of people annually, under continuous monitoring. It is the most controlled consciousness experiment in existence, and it is treated purely as a safety procedure. Coupling and decoupling across a threshold is exactly what the framework predicts should have a phase signature.

Cardiac arrest and resuscitation. Prospective near-death studies exist but are rare and underpowered. Every hospital is generating this data.

Sleep and dreaming. Every human being decouples nightly. The programme treats out-of-body states as a rare talent while the ordinary case runs eight hours a night in every subject, with consumer-grade instrumentation already in the bedroom.

Dying and terminal lucidity. Palliative wards are the natural observation window for the decoupling transition, and terminal lucidity — the return of clear cognition shortly before death in patients with severe neurological damage — is the single hardest datum for the brain-identity assumption. It is documented and almost entirely unstudied.

Birth. The other phase transition. Perinatal monitoring is universal and its coherence structure has never been examined as coupling.

Coma and disorders of consciousness. Clinically urgent, ethically consequential, and currently diagnosed with tools that measure activity rather than integration.

Anomalous cognition in operational settings. Aviation and military incident reports, emergency dispatch, intensive-care nursing intuition: domains where practitioners routinely report anticipatory knowing and where outcome records exist.

Mass gatherings. Rituals, concerts, stadiums, processions, funerals. Synchronised arousal in ritual participants has been measured; the work is a decade old and has not been followed up at scale.

Institutional decoherence. Meetings, boards, committees, project failure. Organisational dysfunction reframed as phase misalignment is directly testable with wearables and existing performance records — and it is the shortest path to funding, because organisations pay for it.

Geomagnetic and solar variation. Decades of continuous geophysical data alongside decades of health, accident, psychiatric-admission and market records. The correlational work exists at the margins and has never been done with modern methods.

Animal precursors. Pre-seismic animal behaviour, homing, distributed navigation. Long-standing anomalies with large observational datasets.

Plants and fungi. Learning and habituation demonstrated in plants under controlled conditions; mycorrhizal signalling networks mapped. The missing rung between organism and field, with the experiments already published.

Twins and long-bonded pairs. The natural experiment for non-local coupling: shared history, no shared channel, and — in twin registries — large enrolled cohorts.

Water as substrate. Coherent domains, interfacial exclusion zones, structuring effects. Chronically contested, cheap to test, and directly load-bearing for coherence medicine.

Altered-state induction. Fasting, hypoxia, cold exposure, rhythmic drumming, entheogens. Threshold-lowering techniques with converging traditional protocols, and — in the psychedelic case — a research taboo that has already collapsed, which makes it the easiest entry point available.

Suppressed energy research. Low-energy nuclear reactions, anomalous heat, transmutation claims. The sociology of the 1989 collapse is itself evidence about how prohibition operates; the residual experimental literature deserves a mechanism-first re-reading rather than another verdict.

UAP. The one prohibition currently collapsing under institutional pressure rather than intellectual argument. It is the natural bridge to the VALIS line and — for the first time in seventy years — it has official data streams attached.

8. Programme

Phase I — Instrumentation. Standardise a phase metric: EEG phase coherence, HRV spectral structure, hyperscanning protocols, with an explicit path from individual to dyad to group to field. Begin with re-analysis of existing archives rather than new collection.

Phase II — Training and modulation. Dose-response studies on tummo, entrainment, and structured out-of-body protocols, using the Phase I metric as outcome. Add environmental modulation — acoustics, geometry, field conditions — as a parallel arm.

Phase III — Application. Coherence diagnostics clinically; group entrainment organisationally; dying as guided transition; anomalous cognition reopened with a mechanism; coherence hygiene as public-health design.

Continuous — Theory. Quantify the coupling threshold and the persistence conditions of dual-domain structure. The programme stands or falls on whether such structure remains coherent without a living coupling. Terminal lucidity, prospective cardiac-arrest studies and the reincarnation-type case literature are the first observation windows.

9. Position

The empirical material for this programme already exists. It is scattered across archives that do not cite one another, produced by investigators who were mostly working alone, in fields that were closed for reasons that were never quite stated. What has been missing is not evidence but a frame in which the evidence is allowed to mean something.

Laws were never the eternal truths waiting to be found. They are the visible residue of one recursive, self-generating process, mistaken for something fixed and final. Once that is granted, the prohibitions are seen for what they are — the boundary of a modelling decision — and everything on the far side of them becomes ordinary work.

Annotated References

Context-dependent physics: the historical turn

Michelson, A. A., & Morley, E. W. (1887). *On the relative motion of the Earth and the luminiferous ether*. American Journal of Science, 34(203), 333–345.

The experiment that failed to detect an ether wind and prompted both Lorentz's and Einstein's revisions. Historically indispensable; the mathematics is elementary and the interpretive weight it has carried is out of all proportion to what it measured.

Lorentz, H. A. (1892). *La théorie électromagnétique de Maxwell et son application aux corps mouvants*. Archives Néerlandaises, 25, 363–552.

Lorentz's medium-based account of contraction — the last major attempt to explain the measurement by reference to the observer's physical situation rather than by abstracting the observer away. Read to see how close physics once stood to a context-sensitive explanation.

Einstein, A. (1905). *Zur Elektrodynamik bewegter Körper*. Annalen der Physik, 17, 891–921.

Light speed raised to postulate, the medium released. The turning point this programme is organised around. Short and readable in translation.

Heaviside, O. (1893). *Electromagnetic Theory, Vol. I*. London.

Maxwell's twenty quaternion equations compressed into four vector equations. Technical, but the introductory chapters make plain why quaternions were rejected — and, by implication, what the rejection cost.

Whittaker, E. T. (1904). *On an expression of the electromagnetic field due to electrons by means of two scalar potential functions*. Proceedings of the London Mathematical Society, s2-1(1), 367–372.

The decomposition of any electromagnetic field into two counter-propagating scalar potentials. The formal root of the standing-wave and scalar-potential tradition; entirely orthodox mathematics with entirely unorthodox descendants.

The vacuum as structured medium

Sakharov, A. D. (1967). *Vacuum quantum fluctuations in curved space and the theory of gravitation*. Doklady Akademii Nauk SSSR, 177, 70.

Two pages that opened the induced-gravity programme. G emerges from vacuum field content as output rather than input — the cleanest demonstration available that a "constant" can be a state property.

Volovik, G. E. (2003). *The Universe in a Helium Droplet*. Oxford University Press.

The superfluid-vacuum programme in full, written for a broad scientific readership. Lorentz invariance appears as an emergent low-energy property of an underlying quantum liquid. The single most important mainstream reference for this programme.

Dirac, P. A. M. (1930). *A theory of electrons and protons*. Proceedings of the Royal Society A, 126, 360–365.

The negative-energy sea, introduced and then progressively written out of the working theory. The original text is far less committed to discarding it than the textbook tradition suggests.

Wheeler, J. A., & Feynman, R. P. (1945, 1949). *Interaction with the absorber as the mechanism of radiation / Classical electrodynamics in terms of direct interparticle action*. Reviews of Modern Physics, 17, 157; 21, 425.

Working electrodynamics built on half-retarded, half-advanced solutions. The respectable ancestor of every retrocausal proposal since; rarely cited by those who declare retrocausation impossible.

Casimir, H. B. G. (1948). *On the attraction between two perfectly conducting plates.* Proceedings KNAW, 51, 793.

Measurable force from vacuum structure. The standard proof that the vacuum is not nothing, and the one everyone accepts.

Matter as structure, form as process

Williamson, J. G., & van der Mark, M. B. (1997). *Is the electron a photon with toroidal topology?* Annales de la Fondation Louis de Broglie, 22(2), 133-160.

Outside the mainstream but clearly argued and concretely modelled: the electron as light knotted into a torus, reproducing spin, mass correction and *Zitterbewegung*. The best entry point to the particle-as-winding idea.

Rowlands, P. (2007). *Zero to Infinity: The Foundations of Physics.* World Scientific.

Nilpotent quantum mechanics: mass, charge, spin and the Dirac equation derived from a self-referential algebraic process, restoring the quaternionic structure Heaviside removed. Dense; requires familiarity with Clifford algebra.

Spencer-Brown, G. (1969). *Laws of Form.* Allen & Unwin, London.

Begins with a single instruction — draw a distinction — and builds an arithmetic from it. The first chapters are the essential ones; the remainder is technical and optional on a first reading.

Kauffman, L. H. Papers on knots, iterants and eigenforms (various years).

Re-entry of a distinction into its own space generates oscillation; oscillation generates the recursive structures from which stable form arises. Scattered across many papers with no single survey; search "eigenform" and "reflexivity" for the accessible entries.

Trained physiology

Benson, H., et al. (1982). *Body temperature changes during the practice of g Tum-mo yoga.* Nature, 295, 234-236.

Measured peripheral temperature increases of up to 8.3 °C in Tibetan practitioners. Published in *Nature*, never explained, rarely followed up.

Kozhevnikov, M., Elliott, J., Shephard, J., & Gramann, K. (2013). *Neurocognitive and somatic components of temperature increases during g-tummo meditation.* PLoS ONE, 8(3), e58244.

Replication four decades later with core-temperature measurement and EEG. Converging results, still no mechanism. Together with Benson, the strongest anchor in the whole programme.

Fröhlich, H. (1968). *Long-range coherence and energy storage in biological systems.* International Journal of Quantum Chemistry, 2, 641-649.

Coherent excitation in biological matter proposed on thermodynamic grounds. The theoretical ancestor of biological coherence claims, by a physicist of unimpeachable standing.

Popp, F. A., et al. Work on ultraweak photon emission from living systems (from 1976).

Biophoton emission and its coherence properties. Contested in interpretation, robust in measurement; a candidate observable for organism-level coherence.

Levin, M. Work on bioelectric control of morphogenesis (from 2007).

Entirely mainstream, and directly load-bearing: bioelectric patterns as instructive templates for anatomical form. Demonstrates that a field-level pattern can carry organising information the genome does not specify.

Consciousness, survival, and the coupling threshold

Stevenson, I. (1966, 1997). *Twenty Cases Suggestive of Reincarnation; Reincarnation and Biology: A Contribution to the Etiology of Birthmarks and Birth Defects*. University Press of Virginia / Praeger.

Roughly three thousand investigated cases over four decades, with birthmark and birth-defect correspondences checkable against autopsy records in a subset. The case reports are exhaustively detailed and deliberately undramatic. Stevenson never proposed a mechanism, which is precisely the gap this programme addresses. Read the criticisms alongside — the methodological debate is substantive and worth knowing.

Tucker, J. B. (2005, 2013). *Life Before Life; Return to Life*. St. Martin's Press.

Continuation of the Virginia programme with American cases and a more statistical presentation. A more accessible entry than Stevenson's volumes.

van Lommel, P., van Wees, R., Meyers, V., & Elfferich, I. (2001). *Near-death experience in survivors of cardiac arrest: a prospective study in the Netherlands*. *The Lancet*, 358, 2039–2045.

Prospective, multi-centre, published in a first-rank medical journal. The strongest clinical challenge to the brain-identity assumption, and Dutch. Essential.

Parnia, S., et al. (2014). *AWAKE — AWAREness during RESuscitation: A prospective study*. *Resuscitation*, 85(12), 1799–1805.

The attempt to test veridical perception during arrest under controlled conditions. Mixed results, exemplary design; the template for what Phase III should look like clinically.

Nahm, M., & Greyson, B. (2009). *Terminal lucidity in patients with chronic schizophrenia and dementia*. *Journal of Nervous and Mental Disease*, 197(12), 942–944.

The return of coherent cognition shortly before death in patients with severe neurological damage. The single hardest datum for brain-identity, and almost wholly unstudied.

Kelly, E. F., et al. (2007). *Irreducible Mind: Toward a Psychology for the 21st Century*. Rowman & Littlefield.

Eight hundred pages surveying the phenomena that twentieth-century psychology set aside. The best single overview of the empirical territory; sober in tone, exhaustive in citation.

Tononi, G. (2004, and later). Integrated information theory.

A formalism for consciousness as integrated information, entirely mainstream, and never applied above the level of the organism. The obvious existing candidate for making the VALIS threshold quantitative.

Anomalous cognition and collective coherence

Puthoff, H. E., & Targ, R. (1976). *A perceptual channel for information transfer over kilometer distances*. *Proceedings of the IEEE*, 64(3), 329–354.

The SRI remote-viewing work in a mainstream engineering journal. Read for the protocols as much as the results.

Utts, J. (1995). *An assessment of the evidence for psychic functioning*. Report to the American Institutes for Research; later in *Journal of Scientific Exploration*.

The statistician's review commissioned at the close of the government programme. Utts concluded the effect was statistically established; her co-reviewer disagreed on cause. The programme was terminated for want of a mechanism, not for want of an effect — the central fact for this framework.

Cardena, E. (2018). *The experimental evidence for parapsychological phenomena: A review.* American Psychologist, 73(5), 663–677.

A meta-review in the flagship journal of American psychology. The most citable single survey of the evidence base.

Bem, D. J. (2011). *Feeling the future.* Journal of Personality and Social Psychology, 100(3), 407–425.

Nine experiments on retroactive influence, and the replication controversy that followed. Historically important beyond its subject: it helped trigger psychology's replication crisis, which says as much about the field's baseline as about the claim.

Radin, D. Presentiment studies (from 1997).

Anticipatory physiological arousal preceding randomly selected stimuli. Small effects, repeated across labs, with no mechanism — the classic profile of a finding awaiting a frame.

Jahn, R. G., & Dunne, B. J. (1987). *Margins of Reality.* Harcourt.

Twenty-eight years of the Princeton Engineering Anomalies Research programme, conducted inside a Princeton engineering school. Read for the institutional history as much as the data.

Nelson, R. D., & Bancel, P. (from 1998). The Global Consciousness Project.

A worldwide network of random-event generators reporting deviations around globally attended events. Whatever one concludes statistically, it is the only existing attempt at planetary-scale coherence instrumentation — a first-generation device to improve rather than a curiosity to dismiss.

Dumas, G., Nadel, J., Soussignan, R., Martinerie, J., & Garnero, L. (2010). *Inter-brain synchronization during social interaction.* PLoS ONE, 5(8), e12166.

Hyperscanning evidence of phase synchronisation between interacting brains. Fully mainstream, and the natural bridge from orthodox neuroscience into group coherence.

Konvalinka, I., et al. (2011). *Synchronized arousal between performers and related spectators in a fire-walking ritual.* PNAS, 108(20), 8514–8519.

Heart-rate synchrony between ritual participants and related onlookers, in a Spanish fire-walking ceremony. Published in PNAS; a decade old; never scaled up. The single clearest opening for the mass-gathering work.

McCraty, R., et al. HeartMath coherence and geomagnetic studies (from 1995).

HRV coherence as a trainable state and its proposed coupling to geomagnetic variation. Institutionally interested and methodologically uneven, but the source of much of the practical measurement apparatus.

Fields, memory, and non-human minds

Sheldrake, R. (1981, 2009). *A New Science of Life: The Hypothesis of Formative Causation.* Blond & Briggs / Icon.

Morphic resonance: form and behaviour stabilised by resonance with past instances. Famously denounced on publication. Read for the experimental proposals, which are unusually concrete, rather than for the metaphysics.

Gagliano, M., Renton, M., Depczynski, M., & Mancuso, S. (2014). *Experience teaches plants to learn faster and forget slower.* Oecologia, 175, 63–72.

Habituation and associative learning demonstrated in *Mimosa* under controlled conditions. Mainstream, replicated, contested in interpretation — and the missing rung between organism and field.

Simard, S. W., et al. (1997 onward). Mycorrhizal networks and inter-tree resource transfer.

Distributed underground signalling and transfer networks in forests. Establishes that coordination at ecosystem scale is not a metaphor.

Water and coherent domains

Del Giudice, E., Preparata, G., & Vitiello, G. (1988). *Water as a free electric dipole laser*. Physical Review Letters, 61, 1085.

Coherent domains in liquid water derived from quantum field theory, in the leading physics journal. The theoretical basis for treating water as a coherence substrate.

Pollack, G. H. (2013). *The Fourth Phase of Water*. Ebner & Sons.

Interfacial exclusion-zone water: charge separation at hydrophilic surfaces, with a large body of accessible experiment. Contested; cheap to replicate; directly load-bearing for coherence medicine.

Benveniste, J., et al. (1988). *Human basophil degranulation triggered by very dilute antiserum against IgE*. Nature, 333, 816–818.

Published in *Nature*, then subjected to an investigation unprecedented in the journal's history. Regardless of the verdict, the episode is a case study in how prohibition is enforced, and should be read alongside the science.

Energy, and the sociology of prohibition

Fleischmann, M., & Pons, S. (1989). *Electrochemically induced nuclear fusion of deuterium*. Journal of Electroanalytical Chemistry, 261, 301–308.

The paper that triggered the fastest and most complete closure of a research field in modern science. The residual experimental literature — anomalous heat, transmutation products, later work in Japanese and US Navy laboratories — deserves a mechanism-first re-reading rather than another verdict.

Storms, E. (2007). *The Science of Low Energy Nuclear Reaction*. World Scientific.

A systematic review of the post-1989 experimental record by a Los Alamos chemist. The most disciplined survey available of a literature most people know only through the controversy.

Bockris, J. O'M. (2005). *The New Paradigm: A Confrontation Between Physics and the Paranormal Phenomena*.

A former Texas A&M electrochemist's account of orthodoxy's enforcement mechanisms, written from inside a career that was ended by them. Uneven as science, valuable as testimony.

Anomaly as an emerging institution

NASA Independent Study Team (2023). *Unidentified Anomalous Phenomena Independent Study Team Report*.

The point at which a seventy-year prohibition became an official data-collection problem. Notable less for content than for the fact of its existence.

Loeb, A., et al. The Galileo Project (from 2021).

Systematic instrumented search for anomalous objects, run from Harvard with standard scientific protocols. The working demonstration that a taboo subject becomes ordinary the moment someone attaches instruments to it.

Traditional protocols as long-baseline data

Evans-Wentz, W. Y. (trans.) / Fremantle, F. & Trungpa, C. (trans.). *The Tibetan Book of the Dead (Bardo Thödol)*.

A thousand-year protocol for navigating the dying transition, transmitted as engineering instruction rather than consolation. Read as an operations manual whose claims are stated in falsifiable terms — this is the reading no one applies to it.

Monroe, R. A. (1971, 1985, 1994). *Journeys Out of the Body; Far Journeys; Ultimate Journey*. Doubleday.

Three decades of first-person reports produced under a self-imposed observational discipline, together with the training protocols developed from them. Phenomenology, not proof — and the only systematic Western attempt to make the state trainable and repeatable.

Katz, R. (1982). *Boiling Energy: Community Healing among the Kalahari Kung*. Harvard University Press.

Ethnography of San trance healing that describes a distributed group state in operational terms. The most useful anthropological source for group coherence as a practised technique rather than a belief.