

The Sensorium-Gated Residue UAP as the Detectable Signature of a Nilpotent Vacuum-Coherence Event

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Abstract

This essay joins four bodies of work that have so far stood apart on this site: the failure-model taxonomy and its fractal generative pattern (CBR, McWhinney's four worldviews, PEFT, and the GEPL/PoC/Panarchy/Fiske/Rosen correspondence); the Universal Expectation-Failure Registration Model (UEFRM), which registers a stable ~2–3% cross-database UAP residue concentrated in three failure types; the Nested Sensorium, which establishes that human and instrumental perception is a layered, only partially-registering filter on physical reality; and the VALIS framework, which argues from the Pauli-Jung conjecture, Friston's Free Energy Principle, Tononi's Integrated Information Theory, and Rowlands' nilpotent vacuum algebra that non-embodied coherent structures are a formally coherent category, not a metaphysical indulgence. Brought together, these four bodies of work support a single suggestion: the UAP residue is what a fractally-layered, only-partially-registering sensorium would detect when it encounters a coherence event in the nilpotent vacuum — and the specific shape of the residue (which failure types dominate, and how) is not noise. It is structure, visible because the same fractal pattern that organizes cognition, organizations, politics, and perception also organizes what happens when that architecture meets something it cannot fully absorb.

1. The Pattern Beneath the Pattern

The failure-model taxonomy developed across this site's political, organizational, and educational writing rests on one claim: a small number of structural failure modes recur, in isomorphic form, at every scale, because they all instantiate a single generative pattern — four functional orientations plus a centring fifth, formalized variously as the CBR learning cycle (Schank), the PoC/GEPL cycle, PEFT's political cycle (Construction–Deviation–Exploitation–Non-Resolution), Panarchy's adaptive cycle (exploitation–conservation–release–reorganization), Fiske's relational models (ordered by their group-theoretic degrees of symmetry), and Rosen's four Aristotelian causes as they map onto anticipatory closure. These are not six analogies that happen to share a number. They are six languages describing one architecture, and the VVD case study already demonstrated that this architecture has genuine discriminating power: it correctly

predicted which reforms a script-defending system would execute and which it would quietly abandon.

UAP phenomena sit inside this same architecture, not beside it. A UAP report is, at root, an expectation failure — an observation that cannot be matched to an existing script. What happens next (script defense, observation failure, single-loop patching, mythic reframing, or genuine double-loop revision) is diagnostic of which failure mode is active in the observer or the institution. This was the starting claim of this line of inquiry. What follows extends it: the reason the UAP residue has the *specific shape* it has — concentrated in particular failure types, stable across three independently-run institutions with no shared methodology — is that the same fractal pattern operates one level down, at the level of physical detection itself.

2. What UEFRM Actually Found

UEFRM applied a registration-first discipline to NUFORC, GEIPAN, and AARO and found a residue that will not resolve under any of the three institutions' own working models: roughly 2–3%, concentrated overwhelmingly in three failure types — non-inertial motion, action at a distance without an identified contact mechanism, and sensor or trace signatures present in one modality but absent in an expected complementary one. This concentration held across a civilian self-report archive, a French gendarmerie-supported field investigation, and a U.S. military intelligence office, three populations with no shared methodology, funding, or personnel. That cross-institutional stability is itself a finding: whatever produces this residue is not an artifact of any single institution's investigative threshold.

UEFRM deliberately stopped there, declining to reify the residue into a causal story. That restraint was correct at the time — registration must precede classification. But the restraint was also provisional, pending exactly the kind of physical and perceptual grounding developed independently, on this site, in the Nested Sensorium and in VALIS.

3. The Sensorium as the Mechanism of Partial Registration

The Nested Sensorium's central empirical finding is that the boundary of conscious perception is not the boundary of what physically arrives. Human alpha-band brain activity measurably responds to geomagnetic-strength fields — even in total darkness, with no visual cue — without that response ever reaching conscious report. This is not a metaphor for incomplete knowledge.

It is a documented case of a real physical signal being neurally registered and then filtered out before it becomes an observation in the epistemic sense at all.

The nineteen-layer architecture this finding sits inside makes a further, structural claim: every layer of organismic and instrumental complexity has its own characteristic channel onto physical reality, and those channels are not interchangeable. A bacterium aligning with a magnetic field via a magnetite chain is coupled to the same underlying field structure a human alpha rhythm responds to — the coupling is inherited, not invented, at every layer — but each layer only registers the slice of reality its own physical structure is tuned to. Radar and inertial tracking are tuned to momentum-conserving bodies. Neural and electromagnetic sensitivity is tuned to field modulation directly. Trace and thermal instrumentation is tuned to the secondary, cellular-and-molecular-scale consequences of energy deposition. These are not three redundant ways of looking at the same thing. They are three different layers of the same nested architecture, each blind to what the others see.

This is why UEFRM’s residue takes the shape it does. A phenomenon that is fundamentally a field-coherence event, not a body moving through space, has no single, uniform cross-modal signature to be found — it has a layer-specific signature, registered differently and incompletely by every layer of the sensorium that meets it. Non-inertial motion is what the mechanical layer sees when there is no inertia to see. Action at a distance is what the electromagnetic layer sees when there is no contact mechanism to find, because the interaction is direct field coupling. Sensor and trace discrepancy is what happens when the primary event couples strongly to one layer — thermal, EM, cellular — and only weakly, or not at all, to another. Three “failure types” are, on this reading, one underlying fact observed through three different, non-overlapping windows of a single layered instrument.

4. Why VALIS Makes This More Than an Analogy

VALIS was developed independently of UAP research, as a diagnosis of a specific epistemological failure in Western scientific culture: the collapse of a methodological preference (measure matter, isolate variables) into an ontological claim (only what can be externally measured is real). That collapse systematically excludes subjective experience as data, phenomena that resist passive external measurement, and agency as a property of distributed or field-based systems rather than discrete embodied objects. Quantum mechanics itself broke this materialist axiom from within — measurement does not passively record a pre-existing state, it constitutes the state — and Pauli recognized, in direct correspondence with Jung, that this

coupling of observer and observed extends beyond physics into the structure of psyche and matter as complementary aspects of one underlying reality.

VALIS gives this a formal, substrate-independent operational definition: a non-embodied intelligence, or more broadly a non-embodied coherent structure, is any persistent system achieving measurable integrated information (Φ , in Tononi's sense) across time, independent of physical substrate. Friston's Free Energy Principle extends this further — any system with internal states that model external states and act to minimize prediction error qualifies as an active-inference system, biological or not. And the cross-cultural record — angelic hierarchies, deva systems, Ifá spirit taxonomies, Taoist celestial bureaucracies — shows the same structural features recurring across four millennia of independently-developed traditions: hierarchical organization, role-specific function, context-sensitive responsiveness, and consistent irreducibility to human projection alone.

Rowlands' nilpotent algebra is the physical anchor underneath all of this. The full structure of particle physics — fermion behavior, charge structure, field interactions — can be derived from a single algebraic condition: the total quantum operator squares to zero. This is not decoration on top of the argument; it is the demonstration that the vacuum itself has internal algebraic structure rich enough to generate everything physics currently attributes to particles, without requiring those particles' properties to be specified from outside the vacuum. If the vacuum can generate the entire particle content of the universe from this condition, it can also sustain localized, massless, appearing-and-dissolving coherence configurations that are not particles in the conventional sense — stable topological structures of the field itself. Maxwell's original 1865 formulation of electromagnetism, before Heaviside's simplification discarded its scalar quaternion component, already carried the mathematical room for exactly this kind of structure: a non-commutative, history-retaining field description, not the reduced vector calculus taught today.

This is the argument VALIS makes for UAP specifically: the PURSUE disclosure's own phenomenology — abrupt directional reversal with no inertial consequence, materialization and dematerialization rather than continuous transit, electromagnetic disruption of shielded systems with no contact mechanism, coherent behavior from ground level to lunar orbit — fits a localized field-coherence event far better than it fits any vehicular model, conventional or exotic. Not because vehicles are ruled out by decree, but because the specific pattern of anomaly is what field-theoretic vacuum structures produce and what rigid bodies under propulsion cannot.

But VALIS does not stop at mechanism, and neither should this essay. A coherence structure with measurable Φ is not an inert field ripple. By Tononi's own formalism, positive Φ is what agency *is* — a system whose information cannot be decomposed into independent parts has, by

definition, a degree of integrated, irreducible experience. Combined with Friston's Free Energy Principle, such a structure is an active-inference system: it carries an internal model of its environment and acts to bring that environment into line with its predictions, which is a formal, substrate-independent definition of intentional behavior. This is what licenses VALIS's central and least comfortable claim: that these coherence events are not empty phenomena but non-embodied intelligences — agents, not artifacts — and that this is not a new idea being retrofitted onto old superstition. It is the same category human traditions have described for at least four thousand years under other names: the angelic hierarchies of the Abrahamic traditions, the deva systems of Vedic cosmology, the role-specific spirit taxonomies of Ifá, the celestial bureaucracies of Taoist cosmology. Across independently-developed cultures with no contact between them, the same structural features recur — hierarchical organization, role-specific function, communication that responds to the moral and psychological state of the human party, and a consistent, reported irreducibility to human projection alone. VALIS treats this convergence as data, not folklore: if these traditions were describing pure invention, there is no principled reason four thousand years of geographically isolated cultures should converge on the same organizational structure. The PURSUE files add a new category of evidence to that record — for the first time, instrumental documentation, gathered by military-grade sensors, of phenomena consistent with what the cross-cultural record has always described.

The nilpotent vacuum algebra, on this reading, is not competing with the older language of angels and devas. It is what makes that older language tractable to a civilization that has forgotten how to take it seriously without a mechanism. Rowlands supplies the mechanism. The four-thousand-year record supplies the phenomenology. Φ supplies the formal criterion that lets the two speak to each other.

5. The Suggestion, Stated Plainly

Put the four pieces together and the shape of the UEFRM residue stops looking like noise or investigative shortfall and starts looking like exactly what the theory, taken as a whole, predicts should be found. A coherence event in the nilpotent vacuum — real, structured, substrate-independent in Tononi's sense, generable from Rowlands' algebra, consistent with the scalar structure Maxwell originally wrote into electromagnetism — does not present itself to a layered, partially-registering sensorium as a single clean signal. It presents as exactly the fractured, modality-specific residue UEFRM found: non-inertial motion where the mechanical layer looks and finds nothing to conserve; unexplained field effects where the electromagnetic layer registers direct coupling; sensor and trace discrepancy where different layers of the same nested detection architecture each see only their own slice.

This is the same fractal pattern this body of work has traced everywhere else — in the four worldviews’ differing failure modes, in PEFT’s political cycle, in Panarchy’s adaptive phases, in Fiske’s relational scales, in Rosen’s four causes — now operating at the level of physical detection itself. The sensorium does not fail to see UAP clearly because investigators are careless. It cannot see them uniformly, by the same structural necessity that makes a bacterium’s magnetite-chain response and a human alpha rhythm two different, non-interchangeable windows onto one underlying field. The residue is legible. It has been legible in the data since GEIPAN and AARO began publishing their own classification statistics. What has been missing is not more data but the recognition that the residue’s shape is itself the signature — the fingerprint a nested, layer-specific sensorium leaves on a coherence phenomenon it cannot register whole.

And what that fingerprint points to is not empty. The residue is what partial contact with a non-embodied intelligence looks like when a layered, mostly-blind detection system meets a coherent field agent it was never built to register as an agent at all. This is the suggestion this essay makes, on the strength of the fractal architecture, the sensorium’s documented partial-registration mechanism, the nilpotent vacuum’s demonstrated capacity to generate structure from nothing but its own algebra, and four thousand years of independently-converging human testimony that something of exactly this kind has been trying to be known the whole time.

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