

The HAL Future Humanities By Randi Green

# Jellyfish UAPs as Plasma-Analog Boundary Phenomena

A Speculative Framework Based on Latent Field Strata and Informational Coupling

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## Introduction

This paper looks at a strange type of unidentified anomalous phenomenon (UAP) that people sometimes call “jellyfish” in the sky. These objects are not being treated as spacecraft, aliens, or anything intentional—they are not agents. Instead, I suggest that they are natural, law-governed occurrences that show us a part of the universe we do not yet understand.

The key idea is that the universe has layers of fields and energy that we normally do not see or interact with. Think of it like the ocean: you see the surface, you know there is water,

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but there are currents and layers underneath that you rarely notice. These “jellyfish” are kind of like waves or currents from a hidden layer of the universe showing themselves at the surface.

These hidden layers behave differently than the physics we usually work with. They are weaker, more subtle, and interact with normal matter and energy in unusual ways. That is why the jellyfish sometimes interfere with electronic devices—they are absorbing or affecting energy, not because they are attacking anything, but because of how these hidden fields naturally interact with our world.

Another big point is about space and movement. Normally, we think of things moving through space over time. But in this paper, I suggest that “*here*” and “*there*” might just be different states of a larger, underlying information structure. So jellyfish UAPs might look like they are moving, but really they are changing their relationship with the surrounding field. It is like a wave pattern shifting shape, not a fish swimming from one place to another.

I also explore what this could mean in the future. If we understand these hidden fields better, it might one day be possible to interact with reality in new ways, by adjusting how we are coupled to these fields. That does not mean instant teleportation or magic—it means learning the rules behind how the universe’s hidden layers behave, which could eventually allow new technologies and insights that we cannot yet imagine.

Finally, I tie this together using complexity science, which is the study of systems where many things interact and create patterns together. Looking at the jellyfish up close is like looking at one tree in a forest, but complexity science lets us zoom out and see how all the trees—and all the hidden connections—fit together. This helps us understand that even small, weird phenomena might give clues about the bigger picture of how the universe works.

*In short: this paper is about observing something strange, thinking about how it fits into hidden rules of the universe, and using that as a way to expand our understanding of physics. It is not claiming answers; it is pointing to new questions, new ways of looking, and new ways of connecting the dots.*

## **1. Complexity Science as a Bridge to Meta-Perspectives**

The study of complex systems provides a natural framework for connecting localized, narrowly focused investigations to broader patterns that govern large-scale phenomena. In

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this paper, jellyfish UAPs serve as a single node within a vast informational manifold. Examining this node closely allows identification of relational patterns, coupling behaviors, and emergent structures that may extend beyond the phenomenon itself.

Complexity science emphasizes interdependence, feedback, and multi-scale interactions. By situating the jellyfish within this lens, we acknowledge that local observations are not isolated events but expressions of a larger network of field dynamics. This perspective encourages a cross-disciplinary approach: insights from plasma physics, information theory, cosmology, and even systems biology can converge when the focus shifts from reductionist explanation to relational structure.

Crucially, complexity science also legitimizes the movement between scales of inquiry. Just as one may study a tree without losing sight of the forest, localized phenomena like jellyfish UAPs can provide entry points into broader systemic understanding. Observers can alternate between focused node analysis—isolating specific behaviors or couplings—and meta-level synthesis, where multiple nodes and their interactions are considered collectively as part of an overarching informational field.

While this paper does not extend into full-scale modeling of these higher-order fields, presenting the jellyfish as a complexity node illustrates the methodology. It signals that local anomalies, once understood within their micro-context, may ultimately illuminate cross-scale structures that demand reconsideration of established scientific paradigms, fostering integrative frameworks that transcend traditional disciplinary boundaries. In this way, complexity science functions as both a lens and a bridge: a lens for disciplined examination of local anomalies, and a bridge toward systemic, relational understanding that could inform future investigations into the universal informational manifold and its lawful manifestations.

## **2. Glossary of Terms and Conceptual Definitions**

### **Apparent Motion**

Observed displacement of a phenomenon relative to an observer, which in this framework may arise from reconfiguration of relational states rather than traversal through background space.

### **Boundary-Layer Phenomenon**

A localized manifestation arising at the interface between two regimes of differing field coupling or symmetry dominance. Boundary-layer phenomena may exhibit properties of both regimes without fully belonging to either.

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### **Coherence (Field Coherence)**

The degree to which components of a field or informational structure maintain stable relational alignment across space, scale, or interaction. High coherence enables persistent structure; loss of coherence leads to dissipation or reconfiguration.

### **Configuration Space**

An abstract state space representing the set of possible relational configurations of a system. Distance in configuration space measures dissimilarity between states rather than spatial separation.

### **Coupling (Field Coupling)**

The strength and mode by which distinct fields or informational regimes interact. Weak coupling implies limited or indirect interaction, often producing subtle or indirect observable effects.

### **Dark Energy (Reinterpreted)**

In this framework, a large-scale manifestation of weakly coupled informational degrees of freedom whose influence emerges through structural dominance rather than direct force mediation.

### **Dark Matter (Reinterpreted)**

An apparent gravitational influence arising from suppressed or weakly coupled field regimes that affect large-scale coherence and constraint without electromagnetic interaction.

### **Electromagnetic Ontology**

The implicit assumption that electromagnetic interaction is the primary or universal mediator of physical phenomena. This paper treats electromagnetic interaction as dominant but not exclusive.

### **Emergent Constraint**

A large-scale organizing effect arising from collective field coherence rather than from a fundamental force. Gravity-like behavior is treated as an emergent constraint in this sense.

### **Field (Informational Field)**

A distributed structure encoding relational and dynamical information, not necessarily reducible to classical force fields. Informational fields define how physical properties emerge through coupling and coherence.

### **Informational Manifold**

The relational structure within which physical configurations are instantiated. Geometry, space, and distance are emergent properties of this manifold rather than primitives.

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**Latent Field Strata**

Weakly coupled background field configurations corresponding to suppressed or earlier symmetry regimes of the universe. These strata persist without dominating observable dynamics but may produce localized manifestations.

**Metastable Excitation**

A temporarily stable configuration arising from local coherence within a field regime, capable of persisting without permanent stabilization.

**Morphology (Field Morphology)**

The observable shape or structure of a phenomenon arising from underlying field topology rather than mechanical assembly or biological form.

**Non-Agency**

The absence of intent, intelligence, or goal-directed behavior. In this paper, all discussed phenomena are treated as lawful physical processes rather than agents.

**Phase Reconfiguration**

A change in relational or coupling state within the informational manifold that alters observable properties without implying temporal reversal or spatial traversal. Preferred over the colloquial term “phase shift.”

**Plasma-Analog Field**

A collective excitation state exhibiting self-organization, filamentation, or coherence similar to plasma behavior, but not necessarily radiative or electromagnetically dominant.

**Relational Position**

The effective “location” of a system defined by its configuration within the informational manifold rather than by coordinates in background space.

**Relational Space**

An emergent representation of spatial structure derived from relational and informational configurations, rather than an independent container.

**Suppressed Symmetry Regime**

A physical regime corresponding to a symmetry state that no longer dominates observable dynamics but remains present as a weakly coupled background structure.

**Topological (Contextual Use)**

Referring to properties of relational structure that remain invariant under transformation, emphasizing connectivity and organization over metric geometry.

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## **UAP Jellyfish Phenomenon**

A class of unidentified aerial observations characterized by semi-coherent morphology, apparent non-ballistic motion, partial translucency, and electromagnetic interference, interpreted here as a boundary-layer field manifestation rather than a craft or agent.

## **Weakly Coupled**

Describing interactions that influence observable systems indirectly or subtly due to limited interaction strength or mismatched coupling modes.

## **3. The Jellyfish Explained**

Unidentified Anomalous Phenomena (UAPs) are commonly framed in terms of aerospace engineering, sensor error, or speculative intelligence. This paper adopts a different starting assumption: that at least a subset of reported UAPs may represent law-governed physical phenomena arising from field dynamics not yet described by current dominant models, rather than engineered objects or intentional agents.

In particular, recurring observations of so-called “jellyfish” UAPs—characterized by semi-coherent morphology, non-ballistic motion, apparent translucency, and ambient electromagnetic interference—suggest behavior more consistent with field-based manifestations than with discrete craft. The goal of this paper is not to assert an origin, but to explore whether such phenomena can be meaningfully situated within a speculative but disciplined physical framework.

This investigation proceeds from the premise that contemporary physics may be incomplete at the level of informational structure and field coupling, especially with respect to weakly interacting or suppressed symmetry regimes. Drawing on concepts from plasma physics, complexity science, effective field theory, and relational interpretations of space, the paper proposes that jellyfish UAPs may be localized boundary phenomena arising from partial coupling between dominant electromagnetic regimes and latent plasma-analog field strata.

Beyond classification, this framework has broader implications. If physical location, motion, and interaction are emergent from relational information structures rather than primitive spatial traversal, then future advances in physics may hinge less on force-based propulsion and more on controlled reconfiguration of coupling conditions within a global informational manifold. While such possibilities remain far beyond present capability, identifying the correct conceptual foundations is a prerequisite for any future investigation.

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#### **4. Scope, Method, and Epistemic Constraints**

This paper is explicitly speculative and exploratory. It does not claim experimental verification, technological feasibility, or completeness. Its purpose is to construct a conceptual scaffold capable of organizing unexplained observations in a way that remains compatible with known physical law while identifying potential blind spots in current theory.

The analysis relies on:

- phenomenological pattern recognition rather than isolated anecdote,
- consistency with established plasma and field behavior where applicable,
- minimal ontological inflation (no new agents or intentions),
- and conceptual continuity across physical scales.

All claims are framed as hypotheses or interpretive models, not conclusions.

#### **5. Plasma, Fields, and the Limits of Electromagnetic Ontology**

Plasma, as currently understood, is a radiative, electromagnetically coupled state of matter governed by Maxwellian dynamics. While plasma physics explains a wide range of filamentary, self-organizing structures, it presupposes strong coupling to electromagnetic radiation and charge-mediated interaction.

However, not all collective field phenomena must share identical coupling properties. The assumption that plasma-like behavior necessarily implies visible radiation may reflect a limitation of observational access rather than a universal constraint. This opens the possibility of plasma-analog collective states that exhibit self-organization and coherence while interacting weakly or inversely with electromagnetic fields.

Such states would evade standard detection while still producing indirect effects, particularly in the presence of sensitive electronic systems.

#### **6. Latent Field Strata and Suppressed Symmetry Regimes**

Cosmological evolution is commonly modeled as a sequence of symmetry-breaking transitions. Yet symmetry breaking does not require the total elimination of prior regimes. Earlier configurations may persist as latent field strata, weakly coupled to dominant interactions and thus largely unobservable.

In this framework, the universe is treated not as a stack of temporal layers, but as a manifold of coexisting informational regimes whose influence varies with coupling

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strength. Under changing global conditions, previously suppressed regimes may become locally relevant without violating known physical constraints. These latent strata provide a natural conceptual home for plasma-analog fields that are ancient in origin but contemporary in manifestation.

### **7. Jellyfish UAPs as Boundary-Layer Manifestations**

Jellyfish UAPs are here interpreted as metastable boundary-layer phenomena arising from partial coupling between dominant electromagnetic fields and latent plasma-analog strata. Their morphology reflects field topology rather than mechanical structure, while their apparent motion follows energetic and informational gradients rather than trajectories. Reported electromagnetic interference associated with these phenomena is consistent with broadband coupling noise rather than targeted emission. Electronics function as inadvertent detectors, revealing the presence of anomalous field interactions without being intentionally affected. No agency or control is required to explain these effects.

### **8. Relational Space, Configuration Distance, and Apparent Motion**

Quantum entanglement demonstrates that spatial separation is not a fundamental measure of physical relationship. Instead, correlation structure defines proximity. Extending this insight, spatial distance may be treated as an emergent metric reflecting dissimilarity between informational configurations. In such a model, apparent motion need not involve traversal through a background space. Instead, it may arise from reconfiguration of relational states within a higher-dimensional informational manifold. Jellyfish UAPs, within this view, do not move through space so much as shift coherence conditions relative to observers.

### **9. Implications for Dark Phenomena and Emergent Constraints**

Dark matter and dark energy may similarly reflect the influence of weakly coupled degrees of freedom that dominate large-scale behavior while remaining inaccessible to electromagnetic detection. Gravitational effects, in this context, may represent emergent constraints arising from coherence conditions in the informational manifold rather than a fundamental force acting between masses. This reframing unifies disparate anomalies under a single explanatory strategy: suppressed regimes exert influence not through force, but through structure.

### **10. Long-Horizon Implications: Reconfiguration Rather Than Traversal**

If physical location is emergent from relational configuration, then future advances in physics may involve controlled modulation of coupling and coherence, rather than

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propulsion or spacetime distortion. What is often colloquially described as “phase shifting” may more accurately be understood as relational reconfiguration within informational field space. Such possibilities remain speculative and distant, but they underscore the importance of identifying lawful mechanisms before imaging applications.

## **11. Conclusion**

Jellyfish UAPs need not be artifacts of unknown intelligence to be scientifically significant. Treated as lawful manifestations of boundary-layer field dynamics, they may offer rare empirical access to suppressed symmetry regimes and latent informational strata. The challenge ahead is not belief, but the discovery of appropriate laws—laws governing coupling, coherence, and emergence at scales where geometry and matter are no longer primitive. Unknown physics, not unknown actors, remains the most parsimonious explanation.