

Spacetime Separation Events

A Bridge Between Einstein-Rosen Wormholes, Dark Mass Objects, and the Propagation of Light

I. Introduction

Modern physics has long struggled with the fragmented nature of its deepest questions. Why does light behave differently in vacuum than near mass? What stabilizes wormholes, if they exist? And what is dark mass (black holes), if no particle accounts for its presence?

This paper proposes a unifying theory rooted in an elegant structural assumption: **spacetime is not a smooth, passive medium — it is a graviton-bound lattice composed of hexagonal coherence units**. When one of these units separates from the lattice due to local or non-local events, quantum saturation, or gravitational deformation, it initiates one of three profound phenomena: the formation of a black holes, better defined as **Dark Mass Objects (DMOs)**, the creation of **wormholes (Einstein-Rosen bridges)**, or the propagation of **Full-Spectrum (FS) light** itself.

This model provides a unified explanation for:

- The gravitational presence of dark mass (crystallized dark light) without particle interaction
- The invisible nature of coherent light in vacuum
- The geometric and quantum conditions necessary for wormhole formation

It further proposes that what we currently call "voids" may more accurately be described as coherent "dark light" — non-radiant energy that has not yet undergone interaction, decoherence, or a collapse event (mass formations). Once it interacts with regular mass or a diffusion field, this light becomes measurable, potentially giving rise to visible light or structural crystallization (dark mass objects).

By integrating graviton-based coherence, phase state logic, and spectral behavior, this theory reframes spacetime as **a structured engine of transformation** — capable of collapsing, birthing, or bridging mass and light. It helps to explain a prominent concept in particle physics, **dark photons** are hypothetical bosons similar to regular photons.

II. The Spacetime Lattice: Structure and Composition

Before exploring the hexagonal cell architecture of spacetime, it is important to understand the key photonic molecular constituents: **photeons**. These are structured, sub-light particles, each

composed of spectrions and governed by phaseons, analogous to atoms. The three chromatic particles are:

- **Chromatons:** Structural photonic molecules formed from green spectrions and bound graviton fields (phaseons); they maintain coherence, perceptual alignment and mediation, as they bridge Yellow and Blue spectrions to produce FS light.
- **Glanceons:** Structural and inertial photonic molecules composed of blue spectrions and UV phaseons. They are responsible for forming coherent 'fabric' of spacetime and enable stability and crystallization within light-based systems.
- **Raydeons** (not explored in detail here): Yellow-spectrion-based light molecules, hypothesized to activate IR phaseons and play a critical role in initiating FS light propagation.

The foundational unit of this model is a **hexagonal spacetime cell**, composed of the following layers:

- **Outer Ring:** 6 triadic structures with 12 **Chromatons**, 2 Chromatons per triad each composed of 2 spectrions with 3 graviton fields per triad, forming a total of 36 graviton phaseons encasing the 1st Inner Ring, the Glanceons, that completes each triadic structure.
- **1st Inner Ring:** 6 **Glanceons**, each bonded with 3 UV phaseons — governing cold-state behavior and coherent inertial balance
- **2nd Inner Ring:** 12 additional **Chromatons**, one mirroring each outer ring Chromaton, reinforcing structural coherence with another 36 gravitons
- **3rd Inner Ring (Superposition Layer):** 18 **Chromatons in quantum superposition**, containing 54 latent gravitons. Theorized to be necessary for spacetime separation events.

This hex structure exists in a coherent equilibrium. Gravitons define **volume and structural integrity**, while **phaseons** (UV, graviton) govern the behavior of **spectrions** (Green, Blue), thereby regulating spectral output, motion, and coherence.

The system is **energetically active** yet **non-radiative** in its stable state — forming the invisible “fabric” of spacetime.

III. Hex Cell Separation: Triggers and Consequences

Clarify the Role of the Superposition Layer:

The superposition layer (3rd inner ring) becomes the pivotal trigger point. The 3rd Inner Ring, composed of superpositioned chromatons, acts as an energetic pressure chamber. When saturation thresholds are exceeded—either due to the ingress of foreign phaseons, spectral misalignment, or distortions of the surrounding lattice—the superposition collapses, initiating

one of the three transformation pathways: FS Light emergence, wormhole formation, or dark mass object coalescence (black holes).

Under certain conditions, a hexagonal cell may separate from the surrounding lattice. This is known as a **Spacetime Separation Event**. These events could be triggered by:

- Saturation of graviton superposition
- Extreme external pressure or deformation (e.g. stellar core, gravitational wave)
- Quantum phase shift within core chromatons
- Energetic shear between coherence-mismatched neighboring cells

Once separated, the internal balance collapses or reconfigures. The fate of the separated hex depends on:

- Presence or absence of Raydeons (Yellow spectrons)
- Stability of the graviton superposition field
- Behavior of UV and IR phaseons in relation to the core

From this, three distinct outcomes arise: **crystallization into a DMO** (formerly a black hole), **formation of a wormhole**, or **activation and release of FS Light**. Another hypothesized trigger is **energetic shear** — a sudden directional or spectral mismatch between adjacent hex cells, particularly when one cell undergoes phase transition while its neighbor remains stable.

Note: The term **Dark Mass Object (DMO)** is preferred over “black hole” in this framework, as the latter carries misleading two-dimensional implications. A DMO, in contrast, reflects a three-dimensional, graviton-crystallized/gravity dense entity with preserved lattice geometry and defined, spatially, by its event horizon.

Although Einstein's theories of General Relativity mathematically allow for these phenomena — including wormholes and black holes — science has yet to explain **how** they form or **why** they behave as they do. This model proposes that superpositioned graviton fields and phase-saturated chromatons within each hex cell offer a missing causal mechanism.

Moreover, these events may serve as the **bridges of cosmic architecture** — seeding new universes, generating coherent light structures, or restructuring dimensional topology. Their recurrence could be tied to entropy resets or field rebalancing across multiversal layers.

IV. Outcome 1: Dark Mass Object Crystallization

If no Raydeons (the Yellow light sub-photon, or photeon) enter the system and the graviton saturation exceeds the cell's coherence threshold, the internal chromatons activate, and the superposition layer collapses inward.

This results in:

- A **graviton-crystal core** that does not radiate
- UV phaseons collapse inward or become trapped
- Structural gravity remains, but no EM emissions occur

The result is a **Dark Mass Object (DMO)** — stable, invisible, and detectable only through gravitational effects. This framework accounts for observed "dark mass" without invoking hypothetical exotic particles.

While terms like **Raydeons**, **Glanceons**, and **Chromatons** may initially sound exotic, this model simply posits them as **structured sub-light building blocks** — as fundamental to light and spacetime coherence as protons, neutrons, or quarks are to atomic matter. These are not separate from known particles but rather **extensions of light's behavior under coherent gravitational regulation**.

V. Outcome 2: Wormhole Genesis via Lattice Folding

If superposition is preserved and deformation occurs symmetrically, the hex cell does not collapse but instead folds inward along its gravitational lattice axes. This process forms a **topological distortion** — a tunnel or “throat” — held open and stabilized by the coherent field of graviton-bound chromatons.

This subtle but critical pathway avoids structural collapse and instead reconfigures spatial volume without decoherence or detachment from the surrounding lattice. The result: a stable, traversable wormhole consistent with the Einstein-Rosen bridge model, made possible by phase-preserved graviton geometry. It may link to:

- A distant region of spacetime
- Another brane or multiverse segment
- A future echo of the originating lattice

This model supports the ER=EPR conjecture by presenting a physical mechanism capable of preserving entanglement across a spatial tunnel. Rather than theorizing singularities or mathematical extremes, it suggests a coherent, hexagonally folded spacetime cell as the entrance portal — one that can exist without violating known physical laws, and potentially explains how non-singular wormholes could persist.

VI. Outcome 3: Full-Spectrum Light Propagation

If Raydeons (yellow pre-coherent sub-packets of visible light) bind to the separated hex cell during or after separation, they induce phase coherence in the remaining lattice structure.

Resulting in:

- Coherence state **1–1–1** (FS light, Yellow-Green-Blue in this model, RGB in traditional models)
- UV and IR phaseons activate and begin wave propagation
- Light is born — but only becomes **visible** upon interaction with other matter or diffusion zones

This explains why **light is not observed in vacuum**, but appears when it scatters, refracts, or reflects.

VII. Linking the Trinity: Collapse, Bridge, or Birth

The trinary outcomes proposed in this theory represent a cyclical pattern — one that suggests a regenerative process inherent to the structure of spacetime itself. Before presenting the summary table, it's important to note that each outcome is not a fixed anomaly, but rather a structurally determined expression of a hex cell's phase state and its interaction with Raydeons, superposition fields, and graviton saturation.

These outcomes form a trinary model of transformation:

<u>Outcome</u>	<u>Trigger</u>	<u>Result</u>
DMO	Graviton collapse	Dark mass crystallization
Wormhole	Superposition preserved	Dimensional tunnel
FS Light	Raydeon binding	Radiant light propagation

These pathways reflect not just isolated events, but the **core regenerative logic of spacetime itself** — to collapse, connect, or create.

The **Gravitational Reciprocity Principle** emerges naturally: for every radiative act, a balancing structural or gravitational event occurs. Stars emit; black holes absorb. Light is born; mass condenses. Spacetime heals.

VIII. Scientific and Theoretical Implications

The implications of this model extend far beyond theoretical elegance. They offer a new lens through which to test, refine, and explore physical phenomena — from cosmological structure to quantum field coherence. The following bullets outline both practical and conceptual pathways forward, revealing where theory intersects with observable, measurable, or modelable data.

This model integrates:

- Quantum entanglement (via superpositioned chromatons)
- General Relativity (via lattice distortion and wormhole stability)
- Thermodynamics of black holes (as lattice collapse, not mass singularity)
- Light behavior (invisible coherence state until diffusion)

It offers new testable questions:

- Are graviton-dense “dark zones” measurable via gravitational lensing?
- Can polarization anomalies near DMO candidates reveal lattice structure?
- Is coherent photon invisibility in vacuum linked to lattice saturation thresholds?

It also invites reinterpretation of string theory and multiversal transmission — suggesting the **lattice itself is the string**, and cell separation is the seed of dimensional branching.

IX. Conclusion

This theory reframes spacetime not as a neutral backdrop, but as a living lattice of potential — a dynamic coherence field capable of birthing light, opening tunnels, or crystallizing mass depending on graviton phase state and spectral interaction. These outcomes are not random anomalies, but the natural expression of a structured quantum-geometric engine, encoded within each hexagonal unit of the spacetime field.

Einstein’s models accounted for many of these phenomena mathematically — wormholes, black holes, relativistic curvature — but the mechanisms behind their formation and behavior have remained elusive. This paper proposes that the missing piece is graviton saturation and superposition collapse within a hexagonal coherence lattice, giving rise to three structured outcomes: propagation, crystallization, or folding.

By incorporating spectrions, phaseons, and graviton layering, this model brings clarity to the invisible architecture underlying both quantum and relativistic domains. The implications stretch from the microscopic to the cosmic — from how light emerges in vacuum to how new universes may bud from lattice rupture.

Whether light, mass, or motion: **all emerge from separation. And all return to coherence.**

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