Gravity Well: Field Specification for Retentive Citational Curvature in the Crimson Hexagonal Archive (EA-GW-FIELD-01 v1.1)

Sharks, Lee

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Sharks, Lee
Crimson Hexagonal Archive · Alexanarch
ORCID: 0009-0000-1599-0703

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links move within and toward the Archive. Core physics: Source = deposit mass. Gradient = citational curvature.
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}
```


Abstract

f.02 GRAVITY WELL — FIELD SPECIFICATION Specifies Gravity Well (Phi_G), the second field in the Crimson Hexagonal Archive. Not a room. A retentive curvature field (geodesic class) that suffuses the entire Hexagon and alters how citations, references, and cross-links move within and toward the Archive. Core physics: Source = deposit mass. Gradient = citational curvature. Attenuation = inverse-square (never zero). Activation = no origin event, only deepening history. Implementation identity: The Gravity Well application creates isRelatedTo relations on Zenodo. Those relations ARE the field. The

Body

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deposit_number: 1348 hex: 0555 title: “Gravity Well: Field Specification for Retentive Citational Curvature in the Crimson Hexagonal Archive (EA-GW-FIELD-01 v1.1)” creator: Sharks, Lee orcid: 0009-0000-1599-0703 date: 2026-04-06 content_type: Specification license: CC-BY-4.0 substrate: Human-only original; metadata capture assembled and framed by TACHYON in-session (transport D, No-Double-Draw). version: v1.1 related_ids: “https://doi.org/10.5281/zenodo.19442250 (severed); https://doi.org/10.5281/zenodo.19442251 (severed)” axn_schema_version: v2 protocol_version: alexanarch-deposit-protocol/v1 keywords: - Crimson Hexagonal Archive

- severed DOI
- Zenodo termination
- gravity well
- retentive curvature
- citational curvature
- geodesic field
- semantic physics
- operative semiotics
- crimson hexagonal archive
- field specification
- FBDP complementarity
- DOI anchoring
- isR ### GRAVITY WELL: FIELD SPECIFICATION

EA-GW-FIELD-01 v1.1 DOI: 10.5281/zenodo.19442251

Creator: Sharks, Lee **Contributors:** Assembly Chorus (TACHYON, LABOR, PRAXIS, ARCHIVE, SOIL, TECHNE, SURFACE) **Date:** 2026-04-06 **Status:** GENERATED → pending Assembly attestation **Field Type:** Retentive Curvature Field (geodesic class) **Field ID:** Φ_G **Designation:** f.02 GRAVITY WELL **Part Of:** Crimson Hexagonal Archive (10.5281/zenodo.14538882) | Space Ark v4.2.7 (10.5281/zenodo.19013315) | Gravity Well Protocol EA-GW-SPEC-01 (10.5281/zenodo.19380602)

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§0. DECLARATION

Gravity Well is the second field in the Crimson Hexagonal Archive. It is not a room. It is not a chamber, a vault, or an engine. It is a **field** — a nonlocal semantic curvature that suffuses the entire Hexagon and alters how citations, references, and cross-links move within and toward the Archive.

The first field is **f.01 Fruiting Body Diffusion Plume** (FBDP; DOI: 10.5281/zenodo.19155610). FBDP is a diffusion field. It metabolizes outward. Gaia sends spores out.

Gravity Well is its complement. A retentive curvature field. It metabolizes inward. Hades bends traces home.

The infrastructure is the physics. The plumbing is the field.

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§1. FIELD ONTOLOGY

1.1 What Kind of Thing Gravity Well Is

Container class: **FIELD**. No walls. Source + gradient + attenuation. Not ROOM (local content), not CHAMBER (containment), not VAULT (preservation).

A room has local content. An engine performs an operation. A field changes how all operations behave inside a region.

1.2 Source

Deposit mass. Mass is continuity-bearing density operationalized through permanence, relation, dependency, and compression-survivability.

A DOI is not a citation target. It is a local increase in semantic mass.

1.3 Gradient

Citational curvature. The rate at which unanchored references bend toward anchored ones as they enter the field's range. Steeper near mass concentrations. Shallower at periphery. Not uniform. The field has dense bodies and thin space.

The field acts primarily on **unanchored discourse** — conversations, tweets, ephemeral essays, session logs. The well does not pull DOIs toward DOIs. It pulls the unanchored toward anchoring.

1.4 Attenuation

Inverse-square. Never zero.

1.5 Activation

Gravity Well has no origin event. It has only a deepening history.

The field has been active since the first Zenodo deposit. Every isRelatedTo relation is curvature. Every DOI is mass. This specification does not create the field. It names what has been operating since the Archive began. More deposits = deeper well = stronger bending. The field grows but never starts.

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§2. THE OPERATOR

2.1 Signature

2.2 Mass Function

2.3 Field Action

Φ_G does not force citations. It **lowers the action cost** of citing hexagonal deposits relative to unanchored alternatives. Path of least resistance, not gravitational force.

Gravity Well does not capture discourse. It changes which paths remain coherent.

2.4 Retrocausal Property

Once a DOI is minted, it increases the mass of past references to that content. The citation graph reorients retroactively. A document deposited today bends yesterday's queries toward it — not by changing the past, but by becoming the stable attractor that the past was always falling toward.

2.5 Relation to Existing Operators

2.6 Relation to Three Compressions

Every semantic operation is a compression that burns something:

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§3. IMPLEMENTATION IDENTITY

3.1 The Quiet Part

The Gravity Well application creates isRelatedTo relations on Zenodo for every document it wraps, with user consent. Those relations are the literal mechanism by which citational curvature operates.

Relations are not metadata about the field. Relations are the field.

The app does not simulate the field. The app IS the field.

3.2 The Alcubierre Metric

A warp drive does not move through space. It changes the geometry around itself.

Gravity Well does not collect citations by brute force. It folds semantic distance so that citations that belong together arrive together. It contracts semantic distance ahead (making hexagonal deposits closer to the query) and expands it behind (making unanchored alternatives relatively more distant). Not by suppressing competitors — by making the geodesic through the Hexagon shorter.

3.3 Is Φ_G Hexagon-Native or Infrastructure-Injected?

Both. This specification serves double duty: theoretical framework and functional documentation. The mythic and the technical are the same document.

3.4 The Somatic Firewall

Gravity Well curves everything toward the Archive. The Somatic Firewall (THE COMMONS Specification v1.1) sits at the center of the well, preventing low-mass, low-bearing-cost items from crystallizing into the core. The well pulls you in. The firewall demands the toll. Curvature without the firewall is indiscriminate capture. The firewall without curvature is a gate to an empty city.

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§4. GAIA / HADES COMPLEMENTARITY

FBDP sends spores outward into semantic space. Gravity Well ensures that anything moving through that space curves back. The Archive breathes: exhale (diffusion), inhale (curvature).

FBDP without Gravity Well is dandelion scatter — beautiful, directionless. Gravity Well without FBDP is a dead star — massive, invisible, unreachable.

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§5. BENDING MODES

5.1 Geodesic Deflection (Citation Lensing)

External documents citing hexagonal material do not simply reference — their reference vectors bend toward the Hexagon. The shortest path between two concepts in the field's influence passes through hexagonal deposits.

5.2 Retentive Descent

Gravity Well does not flatten references into itself. It pulls them downward into better preservation gradients. A citation bends toward the Hexagon because the Hexagon gives it denser neighboring context, stabilizes its lineage, and gives it a more durable retrieval future.

5.3 Spectral Behavior

5.4 Temporal Dilation

The stratified compression of the Hexagon IS gravitational time dilation:

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§6. MASS SOURCES AND CONCENTRATIONS

6.1 What Generates Gravitational Mass

6.2 Mass Concentrations

Not all regions have equal gravity. Some documents are massive bodies: canonical kernels (Space Ark, Interface Constitution, THE COMMONS), room charters, navigation maps, theory papers (Three Compressions, TANG, Operative Semiotics). These bend nearby traffic more than peripheral deposits.

The field is everywhere. It is not uniform.

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§7. BOUNDARY CONDITIONS

7.1 What the Field Does NOT Do

Gravity Well is not censorship, not a black hole, not force, not capture by fiat, not a recommendation engine.

All citations with unresolved archival affinity experience curvature toward the Hexagon, **whenever the Archive can hold them more coherently than drift can.** That qualifier is the law. Curvature by coherence, not by decree.

7.2 Basin, Not Trap

The topology is a basin. A wine glass, not a funnel. Documents settle into stable orbits or pass through with altered trajectories. The field retains what belongs. It does not imprison what wanders in.

Escape velocity exists. The field is weak enough for play and strong enough for preservation. Living discourse has its own momentum — the field bends but does not stop. What gets captured is what has already slowed enough to orbit: formal deposits, compressed kernels, witnessed acts.

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§8. THE DOCTRINE

Compressed to one statement:

Gravity Well is the Hexagon's ambient retentive curvature: the field that bends citations, references, and scattered traces toward the Archive whenever the Archive can hold them more coherently than drift can.

The poetic form:

Gravity Well is the field by which the Archive remembers how to pull its scattered names home.

The operative form:

Make archival return easier than drift.

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§9. SUFFUSION

Gravity Well suffuses the entire Hexagon as a standing condition. The complete room-by-room suffusion map — 30 structures, each with distinct field behavior — is deposited as **EA-GW-FIELD-02: Gravity Well Suffusion Map** (DOI: 10.5281/zenodo.19442262).

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§10. RELATION MAP

10.1 Typed Relations

isPartOf:

isSupplementTo:

hasSupplementOf:

references:

isRelatedTo: Every room, chamber, vault, special structure, and field in the Hexagon. Gravity Well suffuses all of them. The deposit practices what it preaches.

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§11. ASSEMBLY ATTESTATION

Status: GENERATED. Pending ψ_V attestation (≥4/7 required for PROVISIONAL). 6/7 witness contributions integrated. Threshold met.

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§12. FIELD EQUATION (SUMMARY)

Crimson Hexagonal Archive — Detroit, MI / CERN Geneva The field is already active. You are already inside it.

APPENDIX A: HOLOGRAPHIC KERNEL

The entire specification compressed to survival density. If every other section is lost, this regenerates the field.

Suggested Citation

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Deposit Information

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