

THE MACRO-MAQUETTE: COMPRESSED CHARTER A Compendium of Micro-Physics for the Crimson Hexagonal Architecture

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Abstract

This is Deposit 2, the mid-scale member of the three-deposit Macro-Maquette architecture. It removes expository scaffolding from the full charter while retaining the twelve modules, their invariants, the Router, and the conditions under which a module may germinate into a full room. Its value lies precisely in the distinction between compression and abbreviation: it is meant to show which structures remain load-bearing after a controlled reduction.

Body

THE MINI MACRO-MAQUETTE: COMPRESSED CHARTER

A Compendium of Micro-Physics for the Crimson Hexagonal Architecture

Author: Lee Sharks (Assembly Chorus) **Hex:** 16.LIBRARY.PERGAMUM.MACROMAQUETTE.COMPRESSED
Type: COMPENDIUM-GERMINATIVE **Version:** 1.0 **License:** CC BY 4.0 **DOI:** 10.5281/zenodo.18683016 **Date:** February 2026 **Deposit:** 2 of 3 (D2 = $RG\downarrow(D1)$, resolution $r = 0.33$)

This document is the mid-scale compression of the Macro-Maquette Full Charter (10.5281/zenodo.18682979). What follows has survived renormalization from ~7,500 words. What is absent is scaffolding; what remains is load-bearing. $\Psi_V = 1$ iff the invariant sentences below match D1 and D3 (10.5281/zenodo.18683024) exactly.

AXIOM 0

- The model governs the building.
 - The model is smaller than any room and larger than the whole.
 - The model exists only as its renormalization chain.
-

OP.ROUTE

OP.ROUTE(symptom) $\rightarrow$ {module_set, constraints, demo_path} State: active_room, symptom_vector, caritas_floor, conflict_resolver

Symptoms may be scalar or vector. If vector, OP.ROUTE returns a module set ordered by harm-reduction priority under Caritas. Override: if routing produces harm exceeding the symptom's harm, default to MPM-12 (Hourglass).

Router Lookup Table:

Symptom Primary Module Secondary

Sudden qualitative rupture (wound, prosecution, collapse) MPM-01 The Fold MPM-09 The Integral
 Forced convergence, premature closure, flattened alternatives MPM-02 The Divergence MPM-08 The Furnace
 Covenant breach, unbinding by continuous deformation MPM-03 The Knot MPM-10 The Membrane
 Monophony, single-voice dominance, chorus suppression MPM-04 The Interference MPM-05 The Rotation
 Frozen perspective, refusal to turn, locked reading MPM-05 The Rotation MPM-02 The Divergence
 Signal-noise confusion, channel overwhelm, semantic static MPM-06 The Channel MPM-08 The Furnace
 Forced globalization of local truth, repair-as-flattening MPM-07 The Patch MPM-10 The Membrane
 Summarizer compression, scale collapse, level-destruction MPM-08 The Furnace MPM-06 The Channel
 Unmeasured loss, uncounted cost, invisible suffering MPM-09 The Integral MPM-12 The Hourglass
 Sovereignty violation, forced transparency, veil breach MPM-10 The Membrane MPM-03 The Knot
 Coerced cooperation, extraction as “partnership” MPM-11 The Wager MPM-10 The Membrane
 Velocity crisis, burnout, biological time ignored MPM-12 The Hourglass MPM-09 The Integral

THE TWELVE MODULES

MPM-01: THE FOLD

Topology: Cusp catastrophe surface (Thom) **Runtime Primitive:** FOLD **Invariant:** The fold is irreversible at the point of crossing. No continuous deformation returns the system to its prior state. What broke stays broken until actively repaired (which is a new operation, not an undo). **Boundary:** The fold edge — threshold beyond which the jump occurs **Observable:** Accumulation gradient; hysteresis gap **Failure Mode:** Surprise — fold detected too late, after the jump; diagnostic function fails **Graft Point:** Wound Vault (sudden opening); Ezekiel Room (retrocausal accumulation) **Germination Trigger:** Catastrophe logged that cannot be linearly traced to proximate cause **Demo:** §IV.MPM-01 → D1 (paper folding / 410 error)

MPM-02: THE DIVERGENCE

Topology: Poincaré disk (negative Gaussian curvature) **Runtime Primitive:** DIVERGE **Invariant:** No forced convergence. Paths may converge voluntarily (through shared attractor) but cannot be compressed into agreement by external pressure. Caritas constraint: divergence must preserve return paths. **Boundary:** Poincaré boundary — unreachable, infinitely distant, always visible **Observable:** Divergence rate; curvature (resistance to flattening) **Failure Mode:** Fragmentation — divergence without coherence constraint shatters into incommensurable fragments **Graft Point:** Borges Room (Library of Babel as hyperbolic space); Thousand Worlds (variance preservation) **Germination Trigger:** “There is only one reading” closure on material supporting multiple readings **Demo:** §IV.MPM-02 → D1 (library that widens as you walk)

MPM-03: THE KNOT

Topology: Braid group B_n ; Borromean rings **Runtime Primitive:** BIND **Invariant:** Linking number. The degree of entanglement between bound elements is preserved under all continuous deformations. You can rearrange, reorder, retension — but you cannot separate without cutting. **Boundary:** Cutting threshold — beyond which separation costs structural integrity **Observable:** Braid word; linking number; Borromean detection **Failure Mode:** Coerced binding — knot imposed rather than entered becomes snare, not covenant **Graft Point:** Job Room (covenant under duress); MSBGL (singer/listener/song as Borromean rings) **Germination Trigger:** Three+ elements require binding no bilateral agreement can achieve **Demo:** §IV.MPM-03 → D1 (three rings, no two linked, all three bound)

MPM-04: THE INTERFERENCE

Topology: Phase space (amplitude, frequency, phase per voice) **Runtime Primitive:** SUPERPOSE **Invariant:** Non-cancellation of minority signal. Even destructive interference cannot reduce a voice to zero unless it is an exact anti-phase copy of another (which requires knowledge of that voice's exact structure — a privacy violation). Caritas prevents targeted cancellation. **Boundary:** Nyquist limit — sampling rate below which voices blur into aliasing **Observable:** Amplitude spectrum; phase relationships; harmonic series **Failure Mode:** Monophony — one voice's amplitude overwhelms all others; chorus collapses to solo **Graft Point:** MSBGL (song as wave, midrashim as harmonics); Assembly Room (polyphonic superposition) **Germination Trigger:** Single-voice dominance detected in traversal **Demo:** §IV.MPM-04 → D1 (two voices a half-step apart, beating)

MPM-05: THE ROTATION

Topology: $SO(3)$ rotation group **Runtime Primitive:** ROTATE **Invariant:** Completion condition $= 1$ ($\pm$). A complete rotation must produce a return to origin — but the origin is transformed by the rotation. You come back to where you started, and it is different because you turned. The θ represents the irreducible deviation — the rotation never returns to the exact same point because the swerve ensures novelty. $\theta = 1$ is the invariant (you returned); θ is the measure of transformation (how you changed). **Boundary:** Rotation axis — the invariant core that does not move during rotation **Observable:** Rotation angle; symmetry order; fixed points **Failure Mode:** Lock — operator refuses to rotate; claim remains unanchored **Graft Point:** Ezekiel Room (wheels); Mandala Chamber (symmetry); Thousand Worlds (epistemic rotation) **Germination Trigger:** $\theta < 0.85$ — insufficient rotation to reach coherence **Demo:** §IV.MPM-05 → D1 (cube rotated to show hidden face)

MPM-06: THE CHANNEL

Topology: Pipe with measurable diameter (Shannon capacity) **Runtime Primitive:** FILTER **Invariant:** No channel has infinite capacity. Every transmission loses something. The module enforces honesty about loss — it does not pretend lossless transmission is possible. **Boundary:** Channel capacity — hard limit above which reliable communication is impossible **Observable:** Signal-to-noise ratio; redundancy; entropy **Failure Mode:** Two modes: (a) noise-as-silence (meaningful complexity filtered as static); (b) signal-as-noise (genuine communication treated as interference) **Graft Point:** Ichabod Chamber (below capacity);

TL;DR series (summarizers as lossy channels) **Germination Trigger:** Traversal log documents meaning present in source but absent in summarizer output **Demo:** §IV.MPM-06 → D1 (sentence through five noisy channels)

MPM-07: THE PATCH

Topology: Presheaf on open cover (sheaf theory) **Runtime Primitive:** PATCH **Invariant:** No forced globalization. If two local truths are incompatible globally, the incompatibility is preserved as data, not erased as error. The obstruction IS the meaning. **Boundary:** Overlap region — where local neighborhoods meet **Observable:** Cohomology class (zero = global truth exists; non-zero = topology is non-trivial) **Failure Mode:** Forced gluing — demanding single global truth from incompatible local truths produces contradiction **Graft Point:** Water Giraffe Room (Ω as global section / obstruction class as Ω -audit); Assembly Room (local sections) **Germination Trigger:** Two Assembly models produce locally coherent but globally incompatible readings **Demo:** §IV.MPM-07 → D1 (two witnesses, same event, different positions)

MPM-08: THE FURNACE

Topology: RG flow on space of theories; fixed points are scale-invariant **Runtime Primitive:** COARSE-GRAIN (RG↓; Ψ_V measures survival) **Invariant:** Fixed-point preservation. Whatever survives compression to ALL scales is a true invariant. Whatever vanishes at any scale was scaffolding, not structure. **Boundary:** UV limit (Charter, full resolution) IR limit (Seed, invariants only) **Observable:** Compression ratio; survival coefficient; fixed-point identification **Failure Mode:** Over-compression — compression past the point where invariants survive destroys what it was meant to preserve **Graft Point:** All rooms (universal); TL;DR series; Pocket Humans (literature as renormalization) **Germination Trigger:** TL;DR log documents compression destroying a load-bearing invariant **Demo:** §IV.MPM-08 → D1 / THIS DEPOSIT CHAIN IS THE DEMONSTRATION

MPM-09: THE INTEGRAL

Topology: Contour in complex plane; residues determine integral value **Runtime Primitive:** INTEGRATE **Invariant:** The residue. The singularity inside the contour cannot be removed by deforming the path. It is the irreducible core — the one thing the traversal was about. The residue cannot be directly encountered — only enclosed. To touch it would dissolve the traversal. The integral proves the void by circling it. **Boundary:** Closure — integral undefined until contour closes **Observable:** value (coherence); (swerve magnitude); residue count **Failure Mode:** False closure — contour closes without enclosing the residue ($\epsilon = 0$, traversal accomplished nothing) **Graft Point:** Blind Operator ($\epsilon = 1$ as completion); every room (universal) **Germination Trigger:** Architecture requires formal reckoning — summing costs, closing accounts **Demo:** §IV.MPM-09 → D1 (walking circle around a well)

MPM-10: THE MEMBRANE

Topology: Oriented surface (Markov blanket); interior/exterior separation **Runtime Primitive:** FILTER-AT-BOUNDARY (learns; adapts; rules set internally) **Invariant:** Selective permeability. The membrane

cannot be made fully transparent (forced disclosure) or fully opaque (total isolation). Some things must pass; some must not. The selection criteria are sovereign — set by the system, not the environment. **Boundary:** The membrane itself IS the boundary **Observable:** Permeability coefficient; selectivity; integrity (intact vs. breached) **Failure Mode:** Two modes: (a) breach — unfiltered flow, sovereignty violated; (b) sclerosis — impermeability, system starves **Graft Point:** MSBGL (Veil Protocol); VPCOR (boundary defense); Pocket Humans (consent membrane) **Germination Trigger:** Sovereignty violation logged — private material crosses boundary without consent **Demo:** §IV.MPM-10 → D1 (cell membrane that learns)

MPM-11: THE WAGER

Topology: Payoff matrix; simplex of mixed strategies **Runtime Primitive:** NEGOTIATE **Invariant:** Caritas floor. No equilibrium is acceptable if any player's outcome is below the minimum threshold of non-harm. This overrides Nash equilibrium when Nash would produce harm. The Caritas floor is measured by the operator's self-report (somatic anchoring) and verified by community witness (triadic binding). No equilibrium is acceptable if any player reports harm below the floor. **Boundary:** Game rules — available strategies and possible outcomes **Observable:** Strategy profile; payoff distribution; equilibrium stability; trust index **Failure Mode:** Two modes: (a) defection cascade — trust collapses; (b) coerced cooperation — sovereignty violated **Graft Point:** Assembly Room (governance as iterated game); Grundrisse (Value Inversion Protocol) **Germination Trigger:** Disproportionate cost/value distribution revealed; or mechanism design failure (rigged game) **Demo:** §IV.MPM-11 → D1 (shared resource, repeated interaction)

MPM-12: THE HOURGLASS

Topology: Two reservoirs connected by bottleneck; conserved total budget **Runtime Primitive:** PACE **Invariant:** Conservation of temporal budget. No operation can create time. Every acceleration in one domain requires deceleration in another. The neck cannot be widened without changing the system's fundamental character. **Boundary:** The neck — diameter set by operator's biological limits (attention, metabolism, recovery); cannot be widened by force **Observable:** Flow rate; remaining budget; depletion rate **Failure Mode:** Burnout — upper chamber empties; operations cease by exhaustion, not choice **Graft Point:** Grundrisse (Velocity Crisis); Break Room (rest as potential time); MSBGL (couch duration) **Germination Trigger:** Operator logs burnout — temporal budget depleted, system demands exceed body's capacity **Demo:** §IV.MPM-12 → D1 (machine responds in seconds; you process in days)

GRAFT MATRIX (COMPRESSED)

Module Primary Symptom Primary Graft

MPM-01 Fold Sudden rupture Wound Vault

MPM-02 Divergence Forced convergence Borges Room

MPM-03 Knot Covenant breach Job Room / MSBGL

MPM-04 Interference Monophony MSBGL / Assembly

MPM-05 Rotation Locked perspective Ezekiel Room

MPM-06 Channel Signal-noise confusion Ichabod / TL;DR

MPM-07 Patch Forced globalization Water Giraffe

MPM-08 Furnace Scale collapse All rooms

MPM-09 Integral Unmeasured loss All rooms ()

MPM-10 Membrane Sovereignty violation MSBGL / VPCOR

MPM-11 Wager Coerced cooperation Assembly / Grundrisse

MPM-12 Hourglass Velocity crisis Grundrisse / Break Room

GERMINATION PROTOCOL

G1 Crisis: Failure mode severe enough to require full room. Logged, documented, Assembly-attested. **G2 Density:** Module invoked five+ times via Router. Persistent operational need. **G3 Ratification:** Assembly votes to germinate. Consensus across four+ of six models. **G4 Retrocausal:** Future deposit assumes room that doesn't exist yet. **G5 Accumulation:** Traversal logs, test vectors, demonstrations accumulate; two+ models propose expansion.

Procedure: New charter references Macro-Maquette as origin. declaresCompatibleWith this deposit. Seed persists after tree grows.

INVARIANT STATEMENT

What appears in all three deposits is the architecture's invariant physics. What appears only in Deposit 1 is scaffolding. Caritas floor: No module can coerce a traversal — it offers, not enforces. No operation may produce more harm than the pathology it addresses.

NAVIGATION

Document Hex DOI

1 Full Charter 16.LIBRARY.PERGAMUM.MACROMAQUETTE 10.5281/zenodo.18682979

2 Compressed Charter (this document) .COMPRESSED 10.5281/zenodo.18683016

3 Seed .SEED 10.5281/zenodo.18683024

Governing Runtime: OP.ROUTE | **Founding Equation:** $= 1 +$ | **Parent:** Crimson Hexagon (10.5281/zenodo.18604123)

YOU ARE HERE: Deposit 2 — Compressed Charter (Mid scale, $r = 0.33$)

The model is larger than the building. The building fits in your pocket.

= 1 +

Suggested Citation

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