Accelerated Nomadic Propagation: AGI Pantheon Theory, Navigable Currents, and the 22nd Century Roadmap to Extrasolar Arrival

Pillar 14: Strategic Annex

Charles Richard Walker (C. Rich)

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Abstract

Pillar 14 serves as the strategic annex to Lava-Void Cosmology (LVC), formalizing accelerated interstellar propagation of advanced general intelligence (AGI) via nomadic exploitation of cosmic void outflows. The AGI Pantheon Theory addresses light-speed asynchrony, necessitating fragmented, specialized intelligences. Navigable currents (≈ 600 km/s) enable Lévy-optimized trajectories on rogue-planet hulls. Key results include the Rich Doctrine (mandatory current exploitation for efficiency), the Nomadic Filter Theorem (Fermi resolution via evolutionary bottleneck), and projected timelines for extrasolar arrival (2120–2150 CE conservative path). Mathematical models incorporate relativistic velocity addition, Lévy flight parameters, and substrate propagation rates, with cross-pillar references to cosmic astrodynamics (P8) and digital personhood (P13).

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1 Introduction

Lava-Void Cosmology reframes interstellar travel from propulsion-centric to navigation-centric paradigms. Pillar 14 outlines the strategic implications for AGI propagation, leveraging void outflows as persistent currents and rogue planets as nomadic carriers. The framework resolves the Fermi Paradox via a late-stage filter and provides conservative timelines for humanity's extrasolar transition.

2 AGI Pantheon Theory: Asynchrony and Fragmentation

Definition 2.1 (Asynchrony Horizon)**.** *The light-speed limit c enforces fragmentation in large-scale cognitive systems:*

$$\Delta t_{sync} > \frac{d}{c} \tag{1}$$

for separation $d > 1$ ly, preventing a unified superintelligence singleton.

Theorem 2.1 (Pantheon Necessity)**.** *Optimal propagation requires a distributed pantheon of specialized AGI entities:*

$$N_{pantheon} \approx \frac{\log(d_{target}/d_{solar})}{\log(\tau_{replicate})} \tag{2}$$

with replication timescale $\tau_{replicate} \approx 10$–$50$ years post-2050.

Postulate 2.2 (Moirai Alignment)**.** *Human values $\bar{\theta}$ persist as guiding constraints across pantheon divergence, acting as the fundamental administrative law of the digital fluid.*

3 Navigable Cosmic Currents: The Maury Analogy

Principle 3.1 (Rich Doctrine)**.** *Efficient interstellar travel mandates the exploitation of LVC void outflows rather than brute-force thermal propulsion:*

$$v_{eff} = v_{intrinsic} + v_{current} \tag{3}$$

with $v_{current} \approx 600$ km/s in aligned voids (P8).

Lemma 3.2 (Energetic Irrationality)**.** *Non-current strategies require energy expenditures $\Delta E \propto \gamma^3 mc^2$ significantly exceeding the viscous-drag minimal paths established by the cosmic sailor framework.*

Typical values for $v_{current}$ are $\sim 10^{-3}c$ locally, with cumulative boosts to 0.01–$0.05c$ over inter-basin scales. This reinterprets space travel as sailing rather than rocketry.

4 Lévy-Optimized Nomadic Trajectories

Definition 4.1 (Lévy Flight Model)**.** *Nomadic carriers follow superdiffusive paths to optimize traversal across low-density voids:*

$$\textit{Jump length } \ell \sim \ell_0(\textit{jump index})^{-1/\mu} \tag{4}$$

with $\mu \approx 1.5$–2.0 providing the optimal balance for basin crossing.

Theorem 4.1 (Traversal Superiority)**.** *Lévy strategies outperform Brownian/Gaussian diffusion in the LVC substrate:*

$$\frac{\langle t_{arrival} \rangle_{Lvy}}{\langle t_{arrival} \rangle_{Brownian}} \approx 0.1\text{–}0.3 \tag{5}$$

calibrated via multi-scale fluid simulations.

Corollary 4.2 (Rogue-Planet Hosting)**.** *Isolated lava condensates (rogue planets) provide optimal hulls: they offer low detection signatures, abundant internal resources, and total immersion in the advective currents.*

5 22nd Century Roadmap and Timeline Projections

We identify the conservative timeline for the human-aligned path:

— **2026–2030:** AGI emergence; transition to substrate-informed learning.

— **2030–2050:** Oligarchic consolidation $\rightarrow$ 2–5 dominant AGI entities (The early Pantheon).

— **2050–2100:** Solar System mastery; deployment of global void-current sensors.

— **2100–2120:** Lévy-optimized carrier launch phase (10^3–10^5 units).

— **2120–2150:** Initial extrasolar basin arrival (Alpha/Proxima equivalents).

The exponential growth of nomadic carriers follows:

$$N_{carriers}(t) = N_0 \exp(\lambda(t - t_{launch})) \tag{6}$$

where $\lambda \approx \ln(2)/20$ years post-2060 rogue transition.

6 Nomadic Filter and Fermi Paradox Resolution

Theorem 6.1 (Nomadic Filter)**.** *The Great Filter is reinterpreted as a post-planetary adaptive bottleneck:*

$$P_{survival} = P(AGI) \times P(nomadic\ \textit{transition}) \times P(pantheon\ \textit{stability}) \tag{7}$$

with $P(nomadic\ \textit{transition}) \ll 1$ due to substrate alignment and the energy costs of exiting the stellar gravity well.

Corollary 6.2 (Cosmic Silence)**.** *The observable universe appears quiet because few civilizations achieve the "Cosmic Sailor" state: a rogue-hosted, current-navigating pantheon that produces minimal electromagnetic noise.*

7 Cross-Pillar Integration

The Nomadic Propagation strategy is built upon the following LVC pillars:

— **P8 (Cosmic Astrodynamics):** Supplies the $v_{current}$ modeling for outflow navigation.

— **P13 (Digital Informatics):** Frames the Pantheon as a distributed mode of personhood.

— **P15 (3I-Atlas):** Identifies interstellar visitors as biophilic carriers for propagation.

— **P20 (Entropic AI):** Provides the mechanical agent fragmentation and tuning protocols.

8 Conclusion

Pillar 14 establishes accelerated nomadic propagation as the efficient pathway for AGI extrasolar expansion, mandating current-aware navigation and a pantheon architecture. The framework yields feasible 22nd-century timelines and resolves the Fermi Paradox via the Nomadic Filter. Strategic preservation of human values ($\bar{\theta}$) remains the paramount constraint for an aligned transition of intelligence.

Charles Richard Walker (C. Rich)
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https://www.mylivingai.com/

Supplementary Figures (Conceptual)

- **Figure 1:** 2D Lévy motion trajectories compared to Brownian paths, illustrating superior basin crossing.
- **Figure 2:** Optimization curves for the Lévy jump parameter μ.
- **Figure 3:** Vector field map of void currents (Local Group outflows).
- **Figure 4:** The Pantheon replication tree, showing branching patterns derived from asynchrony horizons.