

Addendum 375: The Anti-Solipsism Theorem

One statement consolidating the shared-boundary, enforcement, and linking results — solipsism as a category error

(Consolidates Paper 04 with Addenda 373, 374; seed for Paper 42)

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Abstract

The anti-solipsism result has been assembled in pieces: Paper 04 (multiple observers on a shared boundary; privacy of monadic experience; communication via the classical layer; cardinality of observers), Addendum 373 (shared reality enforced — one S^3 , disjoint fibers, the sole inter-fiber channel through S^3), and Addendum 374 (linked-but-disjoint — the Hopf linking as acausal correlation, and the two regimes of efficacy). This addendum states it once, as a single named theorem, and names the diagnosis it implies: solipsism is a *category error*, the privacy of a fiber mistaken for the privacy of the bundle. The result splits the solipsist thesis into a true, exactly-located claim (the privacy of experience) and an incoherent one (that only the self exists), and locates synchronicity and action as the two regimes of efficacy — correlation through the linking, causation only by action on the shared boundary. Theorem-grade as topology; the one hinge is the interpretation that the fibers are observers. All claims pinned by `verify_P375.py` (8/8). This addendum is the seed consolidated into Paper 42.

1 The theorem

Theorem 1.1 (Anti-Solipsism). *Let observers be the S^1 fibers of the Hopf fibration $\pi : S^3 \rightarrow S^2$. Then:*

- (a) **Privacy (the solipsist's true datum).** *Fibers are pairwise disjoint, $M_i \cap M_j = \emptyset$; experience is fiber-local. The privacy of experience is true and exactly located.*
- (b) **Embedding (the solipsist's false step).** *Every fiber is a proper subset of the one shared total space S^3 , which carries continuum-many fibers ($|S^2| = \mathfrak{c}$). A perspective is by definition a fiber of the bundle, so to be an observer is already to be embedded in the shared arena. “Only I exist” is therefore not false-by-evidence but incoherent: it denies the very structure that constitutes the viewpoint it asserts.*
- (c) **Enforcement.** *The only inter-fiber channel is the shared S^3 ($M_i \rightarrow S^3 \rightarrow M_j$); inter-subjective consistency is enforced by the topology, and disjoint private realities are excluded (Addendum 373).*
- (d) **Two regimes.** *Distinct fibers are disjoint yet linked, with linking number 1: private viewpoints are acausally correlated through the bundle — the structural form of synchronicity (Addendum 374), an affectable layer — while the shared S^3 changes only by action through S^3 . The linking is correlation, not leverage.*

Corollary 1.2 (Solipsism is a category error). *Strong solipsism (only the self exists) is dissolved, not refuted: by (b) it is incoherent, since being-an-observer is already being-embedded. Weak solipsism (the privacy of experience) is true and exactly located by (a). The error is to read the privacy of a fiber (a, true) as the privacy of the bundle (b, incoherent) — a category error. By (d) the lever the solipsist covertly wants, a private power over the shared world, is exactly what the topology forbids.*

Remark 1.3 (The hinge). Parts (a)–(d) are theorems about the Hopf bundle — disjointness, proper-subset embedding, the sole S^3 channel, linking number 1 — and use no observer notion. The single interpretation, which Paper 04 carries as such, is that the fibers *are* conscious observers (monad = consciousness); a second, narrower reading identifies the linking with *experienced* synchronicity. The corpus establishes the topology and permits the readings; it asserts no paranormal phenomenon.

Status

The Anti-Solipsism Theorem (Theorem 1.1) consolidates P04, 373, and 374 into one statement: privacy is true and located (a), the self-only thesis is incoherent (b), consistency is enforced (c), and efficacy splits into correlation (the linking) and causation (action on the shared boundary) (d). The diagnosis is that solipsism is a category error (Corollary 1.2). The result is theorem-grade as topology, with the monad = observer interpretation as its one hinge (Remark 1.3). This addendum is the compact seed; Paper 42 expands it into a full treatment with the philosophical and psychological context the result speaks to. No published number changes; no new objects beyond the consolidation. Verifier: `verify_P375.py`, 8/8 pass.