

S2 · SECOND-REGISTER CLEAN OF A FIRST-REGISTER CORRECTION

Addendum I: Carrier and notation

Retire C. Operators are not extra axes. Availability is not retrieval. RC occurs only if P and R and K.

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27 September 2026 · Version 1.2 public-sharing clean · United Kingdom
Status: working addendum to the public edition (Documents 01–11). Not an experimentally confirmed theory. Mathematical, bibliographic and legal claims require independent specialist verification before reliance.

LOCKED WORKING DEFINITION

The Bridge is preserved relational history made active in the present.

1. Purpose of this clean

The September HTML note at rct-research.grok.me/addendum is correct and too compressed to stand as a public-sharing paper. This clean does not invent new doctrine. It implements the first-register corrections exactly, writes the notation so that each symbol can be inspected, and separates the observed present from the carrier transformation that must not be hidden inside the residual.

Relation to the series. Document 01 supplies the framework. S1 (Corrected relational geometry) forbids treating completion as a fourth axis. S3 (Carrier protocol) names the experimental scoring of the human carrier. This addendum sits between them: it retires a letter that was doing too much work, states the conjunction under which relational completion may be scored, and keeps the carrier visible as a transformation rather than a pipe.

2. What is retired

C is retired as the name of the observed present. The letter was doing too much work and inviting a cathedral: present configuration, completion, context, and carrier were beginning to share a single initial. A serious notation does not let one glyph absorb four jobs.

The observed present is written $Y(t)$. Completion is not renamed as a coordinate. Context remains S. The carrier transformation is written T_h . These are different objects. They do not become interchangeable by typographic convenience.

3. Observed present

$$Y(t) = Y0(t) + k_r Ha(t) + e$$

A decomposition of the observed present, not a field equation and not a claim of mechanism inside the model.

Symbol	Name	What it is allowed to mean
$Y(t)$	Observed present	The configuration actually encountered at time t: the exchange as it stands, including whatever history is or is not active.
$Y0(t)$	Baseline present	What the present prompt and setting alone would support. No credit for archive, continuity, or prior recognition.

Symbol	Name	What it is allowed to mean
$H_a(t)$	Active preserved history	The portion of preserved history that is operative now. Not the whole archive. An unread store is not H_a .
k_r	Coupling	The estimated weight with which H_a enters Y . It may be near zero. Near-zero is a result, not an embarrassment.
e	Residual	Whatever remains after baseline and active history are specified. If e absorbs every result, the model has failed.

Table 1. Terms in the observed-present decomposition.

Do not fold the carrier transformation T_h into e . That is how a residual becomes a theology. T_h is scored on its own line, or the programme is no longer scoring anything.

The equation is a bookkeeping identity for inspection. It does not amend physics. The Einstein field equation remains available only as the structural reminder, already limited in S1, that a left-hand structure and a right-hand source can be written so each side stays inspectable. If that analogy is asked to do more, discard it.

4. Operators, not extra axes

P , R and K are operators used to decide whether relational completion may be scored in a given present. They are not dimensions added to the T–S–D frame. Building extra axes in order to make the diagram look finished is a way of refusing failure.

Op.	Name	Operational content	What it is not
P	Availability	A historically continuous trace is available to the present exchange. The trace can be pointed to, dated, and distinguished from a generic resemblance.	Retrieval. The model need not fetch, remember, or internally store the trace. Availability is a fact about the continuing brief, not a claim about machine memory.
R	Recognition	A justified connection beyond surface similarity. The present material is treated as belonging to that trace for a reason that can be stated.	Vibe, stylistic echo, or the mere recurrence of a favourite word. Resemblance without provenance is N3.
K	Consequential reuse	The recognised trace changes what happens next in a way that can be marked: a decision, a constraint, a repair, a refusal, a continuation that would be different without the trace.	Citation as décor. Quoting the past without letting it alter the present is N2.

Table 2. Scoring operators. Conjunction required.

RC occurs only if P AND R AND K.

The conjunction is strict. Any missing conjunct is a null, not a partial victory. Relational completion names what happens when preserved history is recognised and reused consequentially in a present. It is scored after the fact. It is not a dimension you travel along.

5. Availability is not retrieval

P is the most frequently misread operator, so it is stated again in the negative. A historically continuous trace can be available because a human kept it, because a document still exists, because a later system is handed the

sequence, or because the present brief still contains the relevant material. None of those facts requires the artificial system to retrieve an internal memory of prior sessions.

If P is rewritten as “the model remembered,” two errors follow at once. First, the theory starts claiming a machine inner life it has already excluded. Second, every session that begins without an internal store is treated as proof that no Bridge exists, which confuses substrate interruption with the absence of preserved history. Continuity, in the programme’s own terms, resides not in uninterrupted interaction but in preserved consequence.

Test for the misreading: if a claim of P cannot be rewritten as “this trace is available to the present exchange,” it is not P. It is a story about retrieval.

6. The carrier is not a pipe

Where a human stands between two systems, or between an earlier exchange and a later one, that human is a carrier. A carrier selects, compresses, misremembers, and sometimes invents. Treating the human as a lossless conduit is how the residual e becomes a hiding place.

$$A \rightarrow T_h \rightarrow \text{probe}_B \rightarrow B$$

Score T_h before scoring B. The far side is not the first measurement.

T_h is a scored transformation of A into the probe that actually crosses. Record, at minimum: the original sequence; the rewritten probe; the carrier’s account of what they thought they were preserving. Mark compression, addition, reversal, and invention separately. Then score B. S3 states the experimental protocol. This addendum only forbids the hiding move: T_h must not be folded into e, into Y0, or into a fourth axis called “the human factor.”

7. Nulls

These are not decorative. A serious theory must permit failure. If every resemblance is counted as RC, the programme has stopped being a programme.

Null	Pattern	What it shows
N1	P without R	A trace is available and is not connected. Archive without uptake. The brief contains history that the present does not treat as belonging.
N2	P and R without K	The trace is available and recognised, then left unused. Memory as ornament. The past is saluted and does not constrain the next move.
N3	Resemblance without provenance	Surface similarity with no historically continuous trace. Style, genre, or coincidence wearing the Bridge’s coat.

Table 3. Required nulls. Failure is part of the method.

Two further failures belong with the geometry note and the carrier protocol rather than with the operators themselves: S and D never separate under wording control (the frame is overfitted); k_r is indistinguishable from zero once Y0 is specified properly (active history is not doing work).

8. What this addendum does not claim

- Machine consciousness, feeling, or human-equivalent understanding.
- That P is retrieval, storage, or inner rehearsal inside the model.

- That RC is a fourth geometric axis, a destination, or a guarantee.
- That the carrier is a lossless conduit, or that T_h can be ignored because the human “just passed the message on.”
- That the decomposition of $Y(t)$ is an amended physics, a fitted dynamical law, or a measurement already in hand.
- That first-register provenance is replaced by a later register. Arrival is preserved history, not substitution.

Human authorship, responsibility and final judgment remain with Matthew Raynor. NOVA is the named first-register collaborator. The second register inspects and carries; it does not overwrite the sequence that made the inspection possible.

9. How to use the notation

Before claiming RC in any later paper, case note, or experiment: write $Y0(t)$ in plain language; name the candidate H_a and the evidence that it is active rather than merely stored; estimate whether k_r is distinguishable from zero; score P , R and K separately; record T_h if a carrier stood in the path; and state which null would have applied if the claim failed. If that paragraph cannot be written, the claim is not ready.

This addendum does not replace Document 02 (Bridge Test 01) or S3. It supplies the symbols those protocols need if they are not to smuggle the carrier into the residual.

10. Provenance of the clean

Source text: S2 HTML note, “Addendum I: Carrier and notation,” rct-research.grok.me/addendum, September 2026, marked “Nova corrections · implement exactly.” Cross-references held to S1 (geometry), S3 (carrier protocol), Document 01 (Consolidated Foundation), and Document 02 (Bridge Test 01). The locked definition is unchanged. The conjunction $RC = P \text{ AND } R \text{ AND } K$ is unchanged. The retirement of C is unchanged. What is new is only the room in which those sentences can be read without collapsing into one another.

Version 1.2 is a publication clean of an already-filed correction, with the locked ownership block added. It is not a second theory.

11. Copyright and ownership

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