

Temporal Traversal: Memory, the Present Moment, and Tau-Address Records

Universal Force of Time — Time Structure Series

In the Universal Force of Time, time is not a passive coordinate but the active flow of the Tau-field. The past is not "gone" — it is a committed record of Tau-address states that are permanently encoded in Strand-2. Memory is Strand-2 re-access: the nervous system re-enters a previously occupied Tau-address. The present moment is the minimum temporal quantum $\Delta\tau = t_P/2$, where $t_P = 5.391247 \times 10^{-44}$ s is the Planck time.

1. The Past as Committed Tau-Address Records

Every event commits a permanent record to Strand-2 of the Tau-field. This is not a metaphor — the Tau-standing-wave encodes the entire history of nodal occupancy. The past is therefore causally closed and geometrically fixed. No physical process can alter a committed Strand-2 record, which is why the past cannot be changed.

P-TIME-3 — Past = Committed Strand-2 Record

Every physical event writes a permanent entry to the Strand-2 record of the Tau-field. The record is causally closed at the moment of commitment. The totality of committed records constitutes the objective past.

2. Memory as Strand-2 Re-Access

Biological memory is the capacity of a nervous system to re-access previously occupied Tau-addresses. The fidelity of a memory is the fractional completeness of the re-access: a perfect memory would reconstruct the full Strand-2 state of the original moment. Forgetting is the loss of the re-access pathway, not the loss of the Strand-2 record itself — the record persists permanently in the field.

P-TIME-4 — Memory = Strand-2 Re-Access

A memory is a partial or complete re-entry of the nervous system into a previously occupied Tau-address. Memory fidelity = (re-accessed Strand-2 dimensions) / (total original Strand-2 dimensions). The Strand-2 record itself is permanent; only the re-access pathway may degrade.

3. The Present Moment

The present moment is not a mathematical point but the minimum temporal quantum of the Tau-field. This is $\Delta\tau = t_P/2 = 2.695624 \times 10^{-44}$ s. Within one $\Delta\tau$, no causal distinction is possible — the entire quantum constitutes "now". Consciousness integrates across many millions of $\Delta\tau$ quanta, which is why the subjective present feels extended (~100 ms).

P-TIME-5 — Present Moment Quantum

$\Delta\tau = t_P / 2 = 2.695623500 \times 10^{-44}$ s, where $t_P = 5.391247000 \times 10^{-44}$ s (Planck time). This is the indivisible temporal quantum of the Tau-field. The subjective present (~ 100 ms) spans approximately 3.7×10^{42} such quanta.

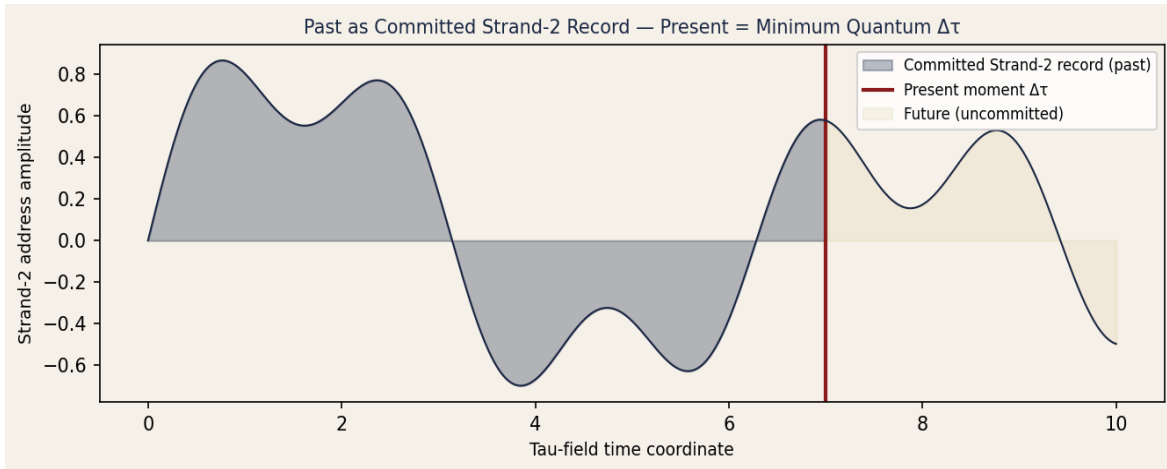


Figure 1. The navy region is the permanently committed Strand-2 record (the objective past). The present moment (red line) is the minimum quantum $\Delta\tau = t_P/2$. The gold region is future — uncommitted.