

SDS as Time: Redefining Temporal Flow as Resonance State

Universal Resonance Theory Report II

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Abstract

Time has been considered one of the fundamental dimensions of reality. Classical mechanics treats it as an absolute backdrop. Relativity redefined it as a variable dimension linked to space, affected by motion and gravity. Quantum theory, however, struggles to place time within its formalism at all.

Universal Resonance Theory (URT) reframes time not as a dimension or a force but as the **pacing of resonance transitions between Sequence Density States (SDS)**. This definition explains why time dilates under motion or gravity, why systems experience “aging” differently, and why no universal “clock” exists.

Time is not independent. It is the emergent pacing of resonance fit across systems.

1. The Problem with Time as a Fundamental Dimension

- Relativity:** Time is relative, yet treated as a dimension of spacetime. Its flow can stretch and compress, contradicting the notion of a universal measure.
- Quantum Theory:** Quantum mechanics requires an external time parameter to describe change, yet cannot define time internally.
- Human Experience:** Time is perceived differently depending on motion, gravity, and even biological state, suggesting it is not an absolute property.

These contradictions exist because time has been misclassified.

2. Sequence Density States (SDS)

In URT, the foundational identity of any Source Mass (SM) is its **Sequence Density State (SDS)**.

- SDS defines how resonance is packed and stabilized within the Source Mass.
- Every transition between states is discrete, like the ticks of a resonance clock.
- The pacing of these transitions is what we perceive as “time.”

Thus, **time is not external. It is the resonance rate of change in SDS.**

3. Time as Resonance Pacing

When systems shift between SDS states, resonance emits or absorbs tone (Revelons, Rephora). These transitions happen in quantized steps, but the pacing can stretch or compress depending on external resonance gradients.

Formally:

$$T_{\text{system}} = \Delta(\text{SDS}) / f_{\text{pacing}} \quad T_{\text{system}} = \Delta(\text{SDS}) / f_{\text{pacing}}$$

Where:

- $\Delta(\text{SDS})$ $\Delta(\text{SDS})$ $\Delta(\text{SDS})$ = the change in state identity of the system.
 - f_{pacing} f_{pacing} f_{pacing} = the resonance pacing, modulated by anchor–flow gradients (velocity, stacking pressure, or external RPF).
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4. Observations Reframed

Time Dilation (Relativity):

- Near strong gradients (black holes, high speeds), resonance corridors stretch. SDS pacing slows.
- Observers see “slower clocks” not because time bends, but because resonance pacing shifts.

Biological Time:

- Cells age as their SDS pacing slows with accumulated misfit and turbulence.
- Perception of time accelerates or decelerates depending on coherence of resonance corridors in the brain.

Quantum Time Problem:

- No universal time is needed. Each system carries its own resonance pacing. This explains why quantum mechanics lacks a global time operator.
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5. Why Time is Not Fundamental

1. No universal clock exists. Every system expresses time differently through its own SDS pacing.
2. Time dilation is naturally explained by resonance gradients.
3. Time stops being a paradox. It becomes a property of resonance states, not an independent dimension.

6. Implications

Physics:

- Time is not a fourth dimension. Spacetime models are useful approximations, but resonance pacing is the true mechanism.
- Quantum theory can drop the external time parameter and treat pacing as internal to each system.

Cosmology:

- “The beginning of time” reframes as the first resonance pacing event.
- The universe’s “age” is the accumulated pacing of resonance redistribution.

Technology:

- Clocks become resonance measurement devices.
- Time control may be possible through pacing modulation (e.g., gradient manipulation, inertial field engineering).

Human Systems:

- Memory, perception, and consciousness are structured not by external time but by resonance pacing of neural SDS.
 - Explains why time perception shifts during trauma, flow states, or altered consciousness.
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7. The Truth

Time is not a dimension or a force. It is the emergent pacing of resonance transitions within Sequence Density States.

- Anchors define stability.
 - Flows define continuity.
 - Time is the measure of pacing between the two.
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8. Conclusion

By reframing time as resonance pacing through SDS, Universal Resonance Theory closes another fundamental gap. Gravity is revealed as an emergent gradient, time as resonance pacing, and polarity as

the anchor–flow law. Together, these redefine two of the so-called “fundamental forces” and unify digital with analog, finite with infinite.

Time was never an independent dimension. It was always resonance pacing made visible.

About the Author

Micheal H. Olver, AMC(AW), USN (Ret.), is a retired Navy Aeronautical Systems Expert with over two decades of service working on advanced aircraft and resonance-driven systems. Since retiring, he has devoted himself to the study of foundational physics, culminating in the creation of Universal Resonance Theory (URT) and its precursor, Sequence Density Theory (SDT). His work redefines gravity, time, and the underlying mechanics of reality as resonance-based phenomena.

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