

## The Restructuring of Time

*Dismantling the Informational Phantom ‘Spacetime’*

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### **ABSTRACT**

Neither ‘space’ nor ‘time’ are substantive material. Both ‘time’ and space *are* fundamental emergent behaviors of informational increase (i.i.), *only*.

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“If nothing else around it changes, heat cannot pass from a cold body to a hot one.”

Rudolph Clausius via Carlo Rovelli *The Order of Time*.

[“This is the *only* basic law of physics that distinguishes the past from the future.”]

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With ‘Delta’ as the ‘change from one state to another’ we begin. A ‘delta C’ is both/either “catalyst/cause of change of state” in the Plancktonian Protophysics lexicon. With S0 [Zo-], substrate zero, as origins conditions, S1 is next in the annotation sequence. The potential catalytic event can be described as follows:

Zo- is also ‘S’, entropy, and a change in entropy significant enough to alter S is called an ‘entropy inversion’, (an exact description of such events can/need be determined by computer modeling, once initial parameters are established) in i.i. terms this is [e.i.1] – entropy inversion one, the first of such with the potential to break the entropy state.

Hypothesizing a conditional change in which all (or enough of) Zo- material is suddenly reallocated, ‘forced’ to one ‘parameter’/edge/boundary opens a ‘void’ along the (now) opposing boundary, which immediately generates a ‘rebound’ effect, and the return of Zo- material into this void is energetic enough to induce the loss of ‘containment’ of the entropic state, which initiates the directional, progressive condition(s) by which the

proverbial “arrow of time” is both ‘forged and fired’ in the same instant, and i.i. is set on its limitless trajectory within the constraints shaped, by/for/in e.i.1 and beyond. These primordial constraints are the built-in, structural limits that continue to guide, shape, influence the i.i. of the Cosmos. These constraints are now manifested as behaviors with the potential to describe the foundational encoding of the ‘rules’ by which limitless cosmological i.i. is expressed and governed. This how the rules for making the rules were determined and encoded throughout the cosmological medium leading to ‘us’ “now”.

This work dissolves the inherited construct of “spacetime” by demonstrating that neither space nor time exists as a substance. Both are emergent behaviors of the informational substrate. The foundational transition is defined as  $\mathbf{S}_0 \rightarrow \mathbf{S}_1$ , where  $\mathbf{S}_0$  is the non-temporal substrate and  $\mathbf{S}_1$  is the first entropy inversion (**e.i.1**) with sufficient catalytic potency to generate directional ordering.

Time is shown to arise not as a dimension but as a **behavioral consequence** of stable heat-flow asymmetry. The only physical distinction between past and future—heat flowing from hot to cold—emerges at **e.i.1**, where a rare offset accumulation within the light-field wave (l.f.w.) produces a new gradient topology. This inversion creates the first persistent  $\Delta I$ -asymmetry, establishing (t) as an ordering of informational change rather than an independent entity.

By reframing entropy, gradients, and informational increase as primary, the traditional spacetime manifold is revealed as a downstream modeling artifact. The dismantling of this phantom restores physics to a substrate-first ontology, where behaviors precede coordinates and catalytic events precede temporal structure. This restructuring provides a minimal, generative foundation for Plancktonian Protophysics and resolves the origin of time without invoking special initial conditions or geometric assumptions.

