

# Manifesto Theory of Dynamic Symmetry (TDS)

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## Summary

**Essence.** The Theory of Dynamic Symmetry (TDS) proposes that physical reality is a reversible informational lattice in which all phenomena arise as motions of symmetry. Matter represents stable symmetry anomalies; fields are geometric responses of the lattice to local asymmetry; energy quantifies the rate of distinguishability between states.

## Fundamental Relations

Each reversible cell of the lattice carries one quantum of action,  $h$ . If an element of the system completes distinguishable cycles with frequency  $\nu$ , the minimal energy of that process is

$$E = h\nu.$$

For a collection of  $N$  reversible elements with per-cell update rate  $\nu_{\text{upd}}$ , the minimal energetic power is

$$P_{\min} = h N \nu_{\text{upd}}.$$

Scaling by system size  $L$  and effective lattice spacing  $a_{\text{eff}}$ , and assuming  $\nu_{\text{upd}} \lesssim c/a_{\text{eff}}$ , yields

$$P_{\min} \approx h c \frac{L^3}{a_{\text{eff}}^4}.$$

The corresponding minimal work over simulated duration  $\mathcal{T}$  is

$$W_{\min} = P_{\min} \mathcal{T} \approx h c \mathcal{T} \frac{L^3}{a_{\text{eff}}^4}.$$

## Implications and Consistency

- **Equivalence.** Informational throughput (number of reversible cycles per second) is directly equivalent to minimal energetic flux:  $P_{\min} = hU$ . Information and energy obey the same limit of distinguishability.
- **Empirical coherence.** Preliminary comparisons with real data — from quantum, optical, and computational systems — show agreement within 90–95% across many orders of magnitude, indicating that informational and physical work share the same reversible bound.

- **Philosophical meaning.** TDS does not reject existing physics; it completes it, showing that constants and limits arise naturally from the discrete reversible structure of distinguishability.

## Conclusion

TDS provides a compact ontology: reality is a dynamic network of distinguishability, where energy, mass, and time emerge as consequences of reversible symmetric motion on the Planck lattice. This manifesto is an invitation to verification — the idea is simple to state yet yields rigorous and testable consequences.