

Core Law of the Theory of Dynamic Symmetry (TDS)

Postulate. The Reversible Symmetry Lattice (RSL) evolves at the Planck scale as a closed, information-preserving system. Its dynamics obey the bijective update rule and the fundamental balance between symmetry and asymmetry:

$$\begin{aligned} \text{RSL: } a &= \ell_P, \quad \tau = t_P, \quad s_i \in \{-1, +1\}, \\ S_{t+1} &= B S_t, \quad B^{-1} \text{ exists,} \\ I_{\text{total}} &= H(S_t) = \text{const}, \\ E_{\text{sym}}[S_t] + E_{\text{asym}}[S_t] &= E_0 = \text{const}, \\ E_{\text{sym}} &= J \sum_{\langle ij \rangle} [s_i s_j]_+, \quad E_{\text{asym}} = J \sum_{\langle ij \rangle} [-s_i s_j]_+, \\ J &> 0, \quad [x]_+ = \max(x, 0). \end{aligned}$$

This equation expresses the reversible equilibrium of symmetry and asymmetry within the informational substrate.