

# Free Will and Tau Determinism

*Agency as a property of high-register Tau-field nodes; determinism at lower D-levels*

The debate between free will and determinism dissolves in Universal Force of Time. At low D-levels (atoms, molecules), the Tau field is deterministic — register transitions follow strict lattice rules. At high D-levels (organisms,  $D = -5$ ), genuine register agency emerges: the organism's Strand-2 field can project and modify lower-register Tau-addresses. This is free will — not uncaused causation, but high-register causal priority over lower registers. The agent does not violate physics; it enacts physics from a deeper register.

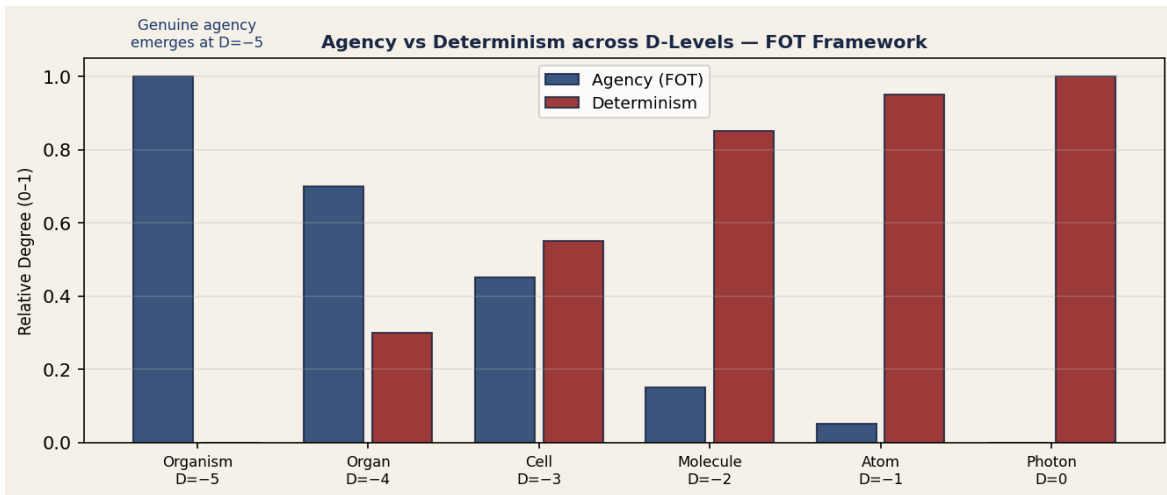


Figure 1. Agency and determinism across D-levels. Determinism dominates at atomic and molecular scales; genuine agency emerges at the organism register ( $D=-5$ ).

## 1. Determinism at Lower D-Levels

### P-FW-1 — $D \leq -2$ Levels are Tau-Deterministic

At  $D = -1$  (atomic) and  $D = -2$  (molecular), the Tau field follows strict register rules. Each state transition is determined by the lattice — the electron in hydrogen must follow the Bohr series; the chemical reaction must follow thermodynamics. There is no room for agency at these levels because D-level nodes are fully specified by their Strand-1 and Strand-2 parameters.

## 2. Agency Emerges at $D = -5$

### P-FW-2 — Organism-Level Agency from Strand-2 Projection

At  $D = -5$  (organism register), the node has sufficient Strand-2 depth to project its own address field onto lower registers. The organism's Strand-2 field can preferentially sample Tau-address states, effectively choosing among potential futures weighted by the organism's register state. This is genuine agency: the organism's Tau-field state is a necessary causal factor in the outcome.

Agency condition:  $D_{\text{agent}} \geq D_{\text{target}} + 3$  (at least three D-levels above target)

Human agency:  $D = -5$  over  $D = -2$  (biochemistry): difference = 3 (minimum threshold)

### 3. The FOT Definition of Free Will

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#### **P-FW-3 — Free Will as High-Register Causal Priority**

Free will is defined as the causal priority of a  $D = -5$  node over the  $D = -2$  lattice within the organism's Tau-register envelope. The agent selects, biases, and enacts — it does not create ex nihilo. Agency is real; it is bounded by the register structure. Moral responsibility follows: an agent whose D-level exceeds the threshold by exactly 3 has minimal agency; as register depth increases beyond 3, the agent's causal priority grows proportionally.

#### **P-FW-4 — Tau Determinism and the Block Universe**

At the complete Tau-lattice level, all events across all D-levels are fully determined — this is the block universe. Within any finite register (D-level sub-lattice), the future is genuinely open. Both are true simultaneously. Determinism applies to the whole; agency applies to the part. This is not a contradiction but a feature of the hierarchical register structure of the Tau field.