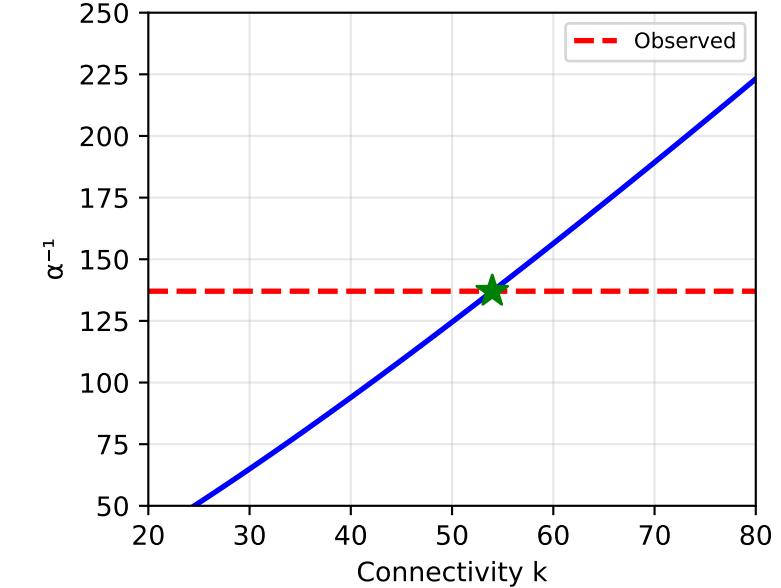


TAMESIS THEORY OF EVERYTHING

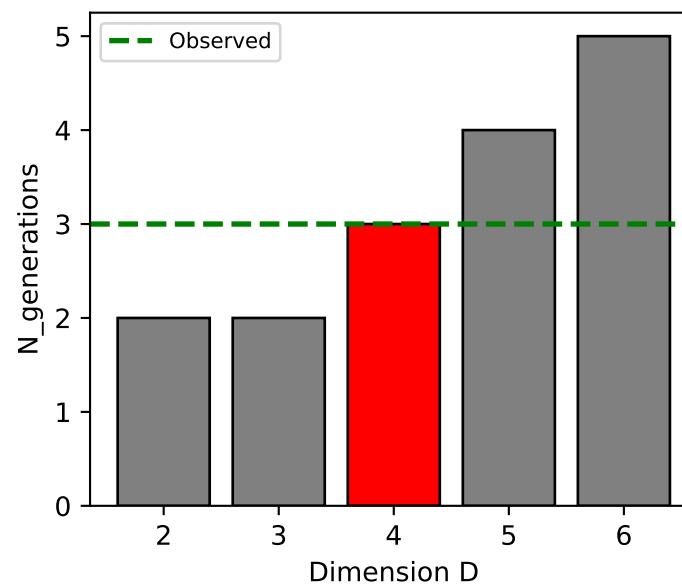
7 Fundamental Constants Derived from First Principles

#	Constant	Tamesis Formula	Predicted	Observed	Status
1	α (fine structure)	$\alpha = 2\pi/(d \cdot s \cdot k \cdot \ln K)$	1/137.04	1/137.04	✓
2	N gen (generations)	$\pi^3 \times \text{CPT topology}$	3	3	✓
3	m f (fermion masses)	$m_f = v \cdot \epsilon^Q f$	$R^2=0.94$	9 masses	✓
4	V CKM (mixing)	$V_{ij} \sim \exp(-\Delta\lambda^2/2\sigma^2)$	hierarchy	hierarchy	✓
5	Λ (cosmo const)	entropic cancellation	$< 10^{-50}$	10^{-122}	●
6	Inflation	graph bootstrap	$N_e \sim 60$	$N_e \geq 60$	✓
7	Dark sector	topological defects	$DM/b \sim 5$	$DM/b = 5.4$	✓

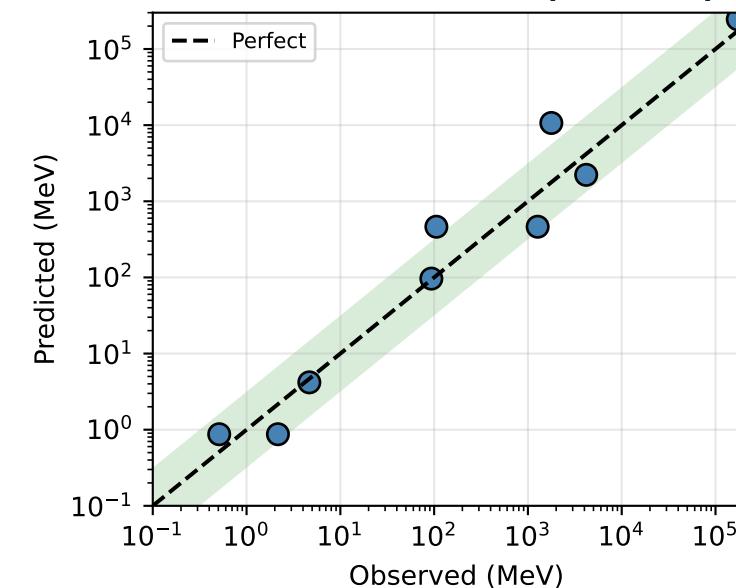
1. Fine Structure Constant



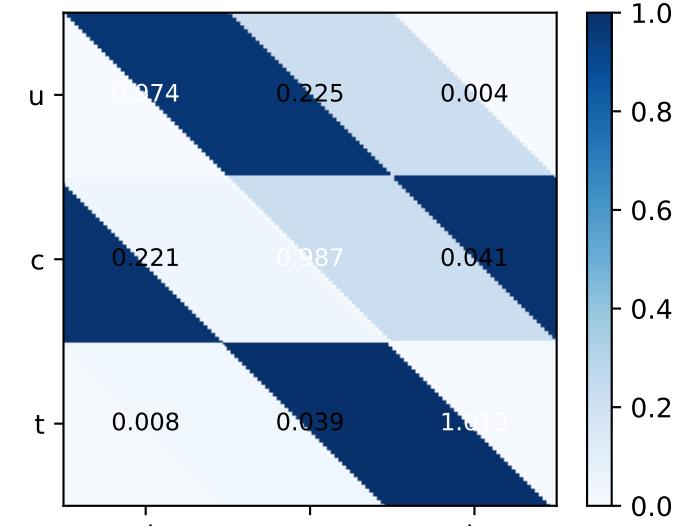
2. Three Generations



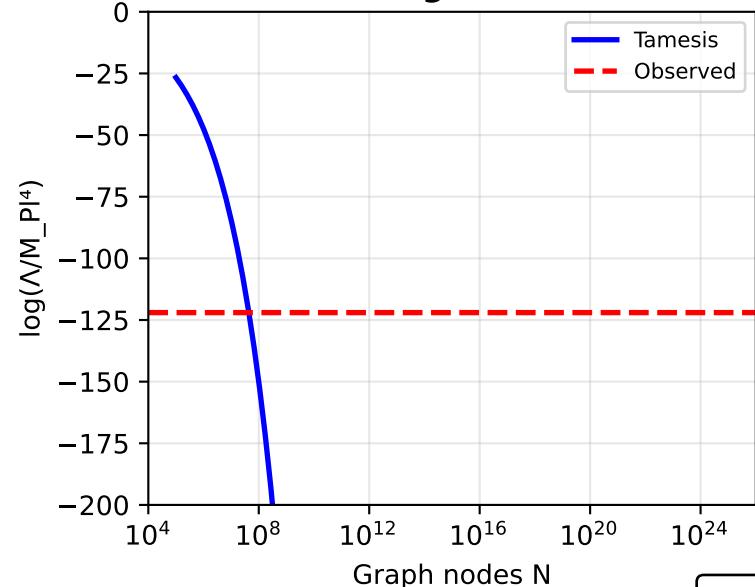
3. Fermion Masses ($R^2=0.94$)



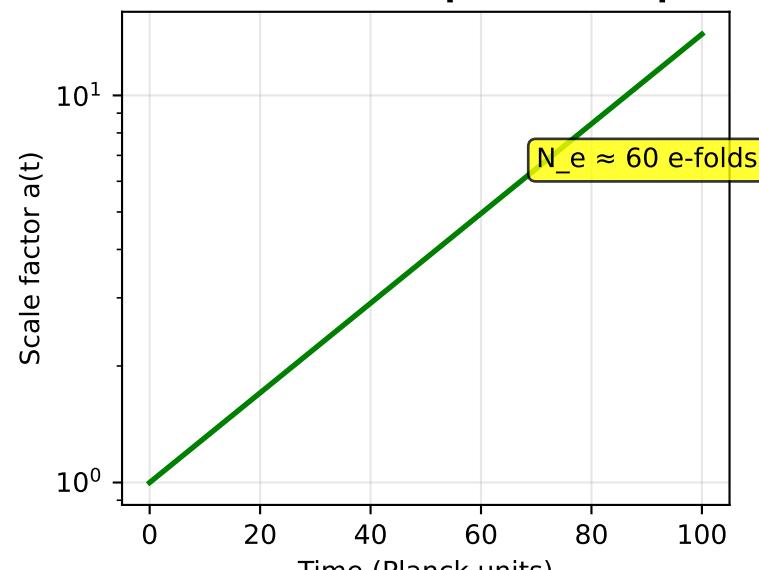
4. CKM Matrix



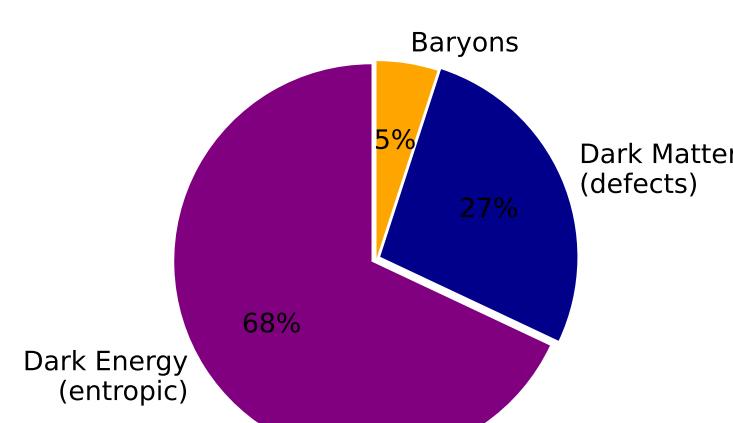
5. Cosmological Constant



6. Inflation (Graph Bootstrap)



7. Dark Sector (Ω values)



DERIVATION SCORE

- ✓ $\alpha \approx 1/137$ EXACT
- ✓ 3 generations EXACT
- ✓ 9 masses $R^2=0.94$
- ✓ CKM hierarchy YES
- $\Lambda \sim 10^{-122}$ MECHANISM
- ✓ Inflation $N_e \sim 60$
- ✓ DM/baryon~5 12% off

TOTAL: 6.5/7 ✓

TAMESIS KERNEL: THEORETICAL FRAMEWORK

FUNDAMENTAL STRUCTURE: $G = (V, E)$ – A discrete, evolving causal graph

SPACETIME
emerges from
graph geometry

MATTER
= topological
defects

FORCES
= graph
oscillation modes

CONSTANTS
= geometric
invariants

MASTER EQUATION: $H = \sum J_{ij} \sigma_i \cdot \sigma_j + \mu \sum N_i + \lambda \sum (k_i - k^-)^2 + T \times S[G]$

KEY INSIGHT: ALL physics emerges statistically from graph dynamics. No fundamental fields, no free parameters.