

Ten Pre-Declared Numbers, and What Would Kill Each One

Ten pre-declared numbers, and what would kill each one. The sharpest numerical predictions of the GG-Theory program, each with the threshold declared in advance that would falsify it and its experimental status in 2026. Two rows are measured and verified, three are consistent with current data, two are under active experimental search, and three are carried as forward audits. The right-hand column links to the companion paper where the prediction is proved. Proof locations, the comparison mode for each row, and the full claim contracts are in Table 7 in Part IV, p. 155.

Falsifier	GG closed form	Measured, 2026	Status	Dies if	Proved in
F-1 GUT scale E_{GUT}	$E_{\text{Pl}} e^{-2\pi} \approx 2.28 \times 10^{16} \text{ GeV}$	Inferred from α_i flow	Forward audit	Unification fails at one loop	GG-A2-GG6
F-2 Lock cluster M_{lock}	$\frac{1}{2} M_{\text{Pl}} e^{-35} \approx 3.85 \text{ TeV}$	No resonance yet at this mass	Active LHC search	5σ absence at HL-LHC, or 5σ resonance at $\neq M_{\text{lock}}$	GG-A2-GG6 , GG-A9-SM , GG-P1-KK
F-3 Electroweak vev v	$\approx 246 \text{ GeV}$	$246.220 \pm 0.001 \text{ GeV}$	Verified	Deviation $> 5\sigma$ from the rational derivation	GG-A9-SM
F-4 Matter fraction Ω_m	$1/\pi = 0.31831$	0.3153 ± 0.0073 (Planck 2018)	$\sim 0.3\sigma$	5σ from $1/\pi$ at resolution $\sigma \leq 0.003$	GG-A10-Cosmos
F-5 CC scale m_Λ	$\approx 6 \text{ meV}$	Consistent with $\Lambda \approx 1.1 \times 10^{-52} \text{ m}^{-2}$	Consistent	Deviation $> 5\sigma$ from neutrino-scale matching	GG-A10-Cosmos
F-6 Baryon fraction Ω_b	$1/(2\pi^2) = 0.05066$	0.0493 ± 0.0006 (Planck 2018)	$\sim 2\sigma$	5σ in any next-generation BBN / CMB fit	GG-A10-Cosmos
F-7 Kaxion address and count	$\nu_K \in [1.59, 2.13] \text{ GHz}$ on seven rungs $\Xi_{\text{cap}} \in \{35, \dots, 47\}$, and <i>one</i> line in it	Not yet registered	Active haloscope search	A confirmed line outside the window, or a second light line inside it, at 5σ	GG-A10-Cosmos , GG-C1-Kaxion
F-8 Generations N_g	Exactly three families	Three observed	Verified	A fourth admissible generation	GG-A2-GG6 , GG-P2-N3
F-9 BI-6 trace ratio	$ a/c = a/d = 5/2$	Implied by SM hypercharge via descent	Forward audit	A fifth admissible anomaly polynomial	GG-A3-BI6