

Every Claim in This Paper, with Its Status — Go to the Weakest Row

Every principal claim of this paper, with its status and a pointer. The middle column is graded rather than rhetorical: a claim is proved, conditional on a stated hypothesis, or open, and the third column says where the proof lives or what the residue is. A reader who wants to test the paper should read this table first and then go to the weakest row, because the paper is only as strong as that row. Nothing downstream in the cohort consumes a row that is not marked proved. The same table, in place: Table 2, p. 24.

Claim	Status	Comment
If $I_8 = \frac{1}{2}X_4^2$, a single Green–Schwarz tensor cancels the full infinitesimal local anomaly	Proved	Theorem 5.5; rigorous descent proof in Section 5 and Appendix B.
The same BI-6 mechanism is globally anomaly-free on the intended GG-6 background class	Proved (two levels)	Section 6 and Appendix I; the theorem is unconditional for the intended product/collar GG-6 category.
An explicit finite benchmark spectrum realizes $I_8 = (\Omega/2)X_4^2$ for BI-6	Proved	Theorem 7.9; existence construction, not a uniqueness or minimality claim.
The same BI-6 term cancels orbifold-localized boundary anomaly by inflow	Proved	Standard descent on the interval, together with the globally defined differential-cocycle lift.
The OGN-5 integers $(M, N, L; J, K) = (1, 3, 5; 7, 35)$ are theorem-level consequences of GG-6 with BI-6	Proved, given AX-4	Section 9; the primitive tensor slot, the unified block size (Thm. 9.2), the closure determination of the color index (Thm. 9.4) and the dual lock fix the packet uniquely, with no empirical input. The fence is AX-4 (MSMF), which selects the minimal package at two steps.
$U(1)_B$ is essential to the BI-6 / GG-6 chain, while $U(1)_{Q_i}$ is allowed and optional at the narrow anomaly-theorem level	Proved / clarified	Section 6; the baryonic slot is structural, the informational slot is anomaly-compatible and becomes natural/constitutive once GG-6 is extended to GDOS.
BI-6 is analogous to the 1984 GS mechanism at the level of local descent/cohomology and now also admits a modern global completion	Proved	Sections 10 and 11; similarities and differences are stated feature by feature.
The benchmark spectrum is unique or absolutely minimal	Open	The paper gives an existence construction; minimality is a separate Diophantine problem.
$\Omega_{\text{eff}} = \Omega_{\text{orb}}/L^2$ is driven dynamically to 1 by the inflationary descent of GG-A10-Cosmos	Deferred	Demonstrated in the companion cosmology paper.
The 28 Standard-Model parameters are derived from OGN-5 / GDOS	Deferred	Demonstrated in the companion Arisaka-GG-A9-SM (Arisaka, 2026, A9-SM) rather than proved in the present preprint.