

Status Note and Partial Retraction: the “Unified Theory of Everything from $SU(3)_3 \otimes SU(2)_2$ ” programme

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This note supersedes the claims of all earlier versions of this record (v1–v33) and of the companion “AME(4,6)” paper series. It is posted as the current version so that the concept DOI resolves to an accurate statement of what this programme did and did not establish. Earlier versions remain accessible, as is proper, as the record of the programme’s history.

Retracted

After adversarial review and independent recomputation (June 2026), the following are **with-drawn** and should not be cited as results:

1. **The headline claim:** that the modular tensor category $SU(3)_3 \otimes SU(2)_2$ derives the Standard Model parameters and/or general relativity with “zero free parameters.” The corpus contains fitted and hand-selected quantities (documented in the programme’s own audit files), and the honest parameter count is not zero.
2. $|V_{ts}| = 0.059$ and the associated $\Delta C_9 \approx -1.3$ “prediction”: the value is $\sim 13\sigma$ from experiment, violates CKM unitarity, and the argument was circular; the lepton-universality anomalies it leaned on are SM-consistent in current data.
3. The proton-lifetime value $\tau_p \sim 7.7 \times 10^{22}$ yr (excluded by Super-Kamiokande by >11 orders of magnitude) and the inflation amplitude $r \approx 0.083$ (excluded by current CMB bounds); the baryogenesis estimate (off by $\sim 3 \times 10^4$).
4. All numerical derivations for which the corpus contains mutually inconsistent “fundamental” values — including $\sin^2 \theta_W$ (two incompatible values), $1/\alpha$ (three formulas), λ_H (four values), and G_N (four inequivalent derivations, including the $G_N = l^2/32$ chain of v33). Mutually contradictory derivations cannot jointly stand and are withdrawn as predictions.

What stands

1. **Mathematics** (peer-review track, maintained separately at concept DOI 10.5281/zenodo.20128951, v7): the classification of condensable algebras in $SU(3)_3 \otimes SU(2)_2$ (exactly

two; maximal $d_A = 6$; condensed phase the $\nu = 11$ Ising-type category of the sixteen-fold way, $\cong \text{SO}(11)_1$; the level-rank characterization $S_{\text{adj}, \text{fund}} = 0 \iff N+k = 6$ and its cross-family fixed-point classification (all $\text{Spin}(N)_2$); the Witt class $[\text{SU}(3)_3 \otimes \text{SU}(2)_2] = [\text{Ising}]^{11}$; the validated `mtctools` package (v0.3.0).

2. **Qualitative observations**, presented as observations and not as derivations: e.g. the residual $\mathbb{Z}_3 \times \mathbb{Z}_2 = \mathbb{Z}_6$ structure coinciding with the Standard Model’s global gauge-group quotient, and three-generation counting via \mathbb{Z}_3 structures. Whether such coincidences admit a principled realization is an open question in the non-invertible-symmetry literature, not a result of this programme.

Method note

The failure mode throughout was identification by numerology: matching a number (a quantum dimension, a coincidence of names like “SU(3)”, a single matched digit pattern) and treating the match as a derivation. The corrected practice — match rank, dimensions, twists, and central charge, or do not identify; count every fitted input; publish the negative results — is documented in the audit trail accompanying the mathematics record.

I prefer leaving this record visible, with this notice at its head, to quietly deleting it. Errors documented are worth more than errors erased.