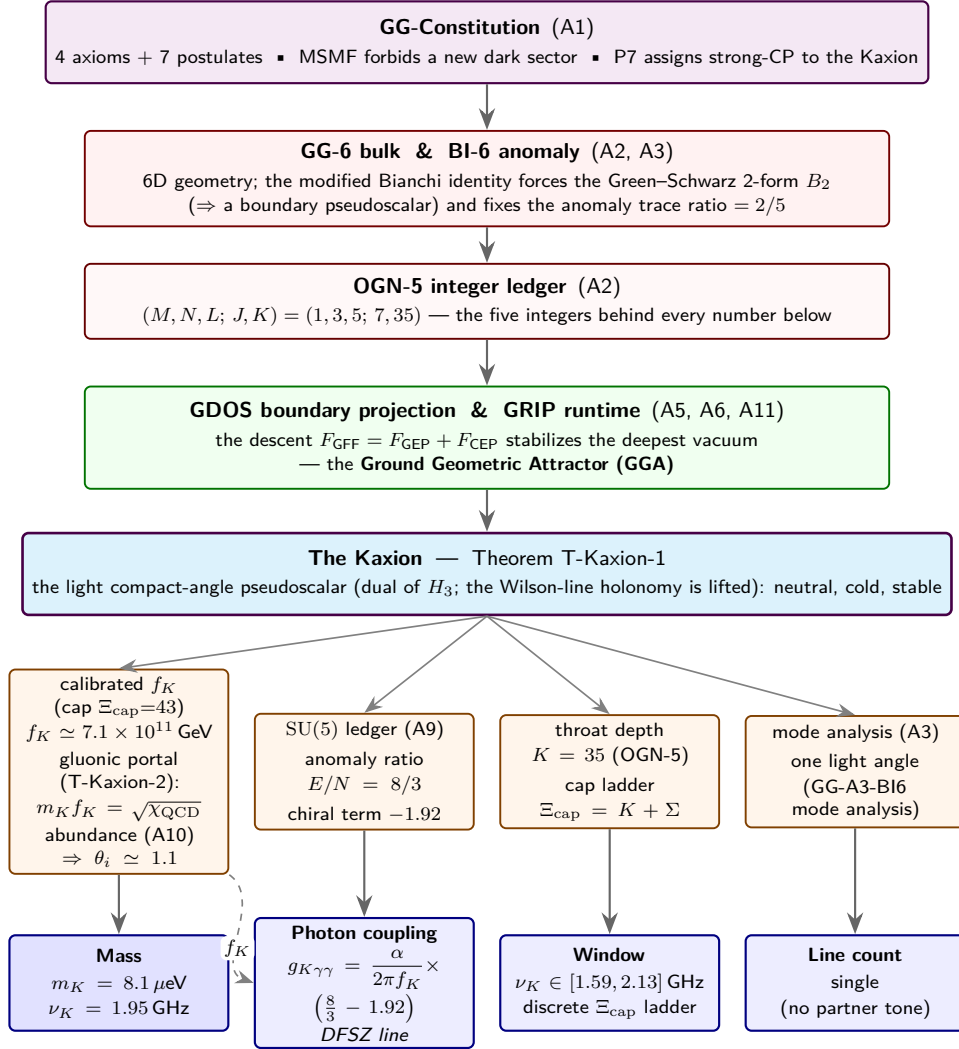


# From Five Integers to Four Falsifiable Numbers — the Derivation Flow of the Kaxion



**Figure 2: Derivation flow of the Kaxion: from the constitution to four falsifiable numbers.** Each downward step adds no free parameter beyond the one calibrated scale: the constitution forces the 6D bulk and the BI-6 anomaly, which carry the five-integer OGN-5 ledger (1, 3, 5; 7, 35); the GDOS boundary law and the GRIP runtime select and stabilize the deepest vacuum — the Ground Geometric Attractor — and with it the Kaxion. The four key quantities then follow from named upstream ingredients: the **mass** from the  $\pi$ -locked abundance and the gluonic portal  $m_K f_K = \sqrt{\chi_{\text{QCD}}}$ ; the **photon coupling** from  $E/N = 8/3$  on the DFSZ line; the **window** from the ladder ansatz around the calibrated benchmark, anchored at the throat depth  $K = 35$  through the discrete cap ladder; and the **line count** — single — from the mode analysis of the anomaly companion. The dashed link records that the same decay constant  $f_K$  fixes both the mass and the photon coupling. Full version: Figure 7 in Part V.