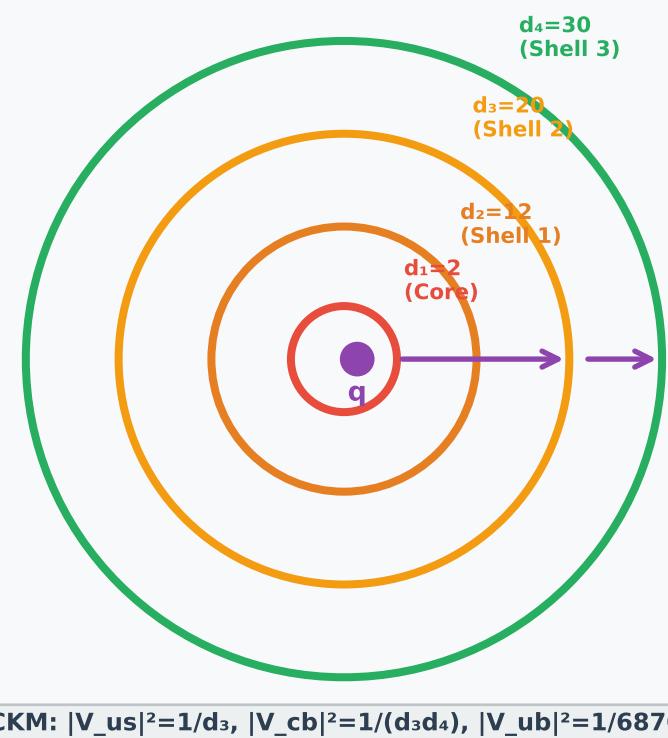


GEOMETRIC STANDARD MODEL: Visual Framework

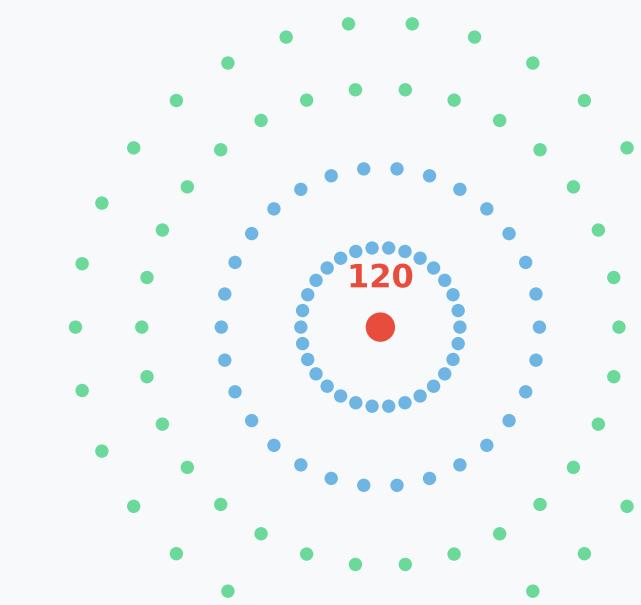
H4 600-Cell: Quark Tunneling Shells



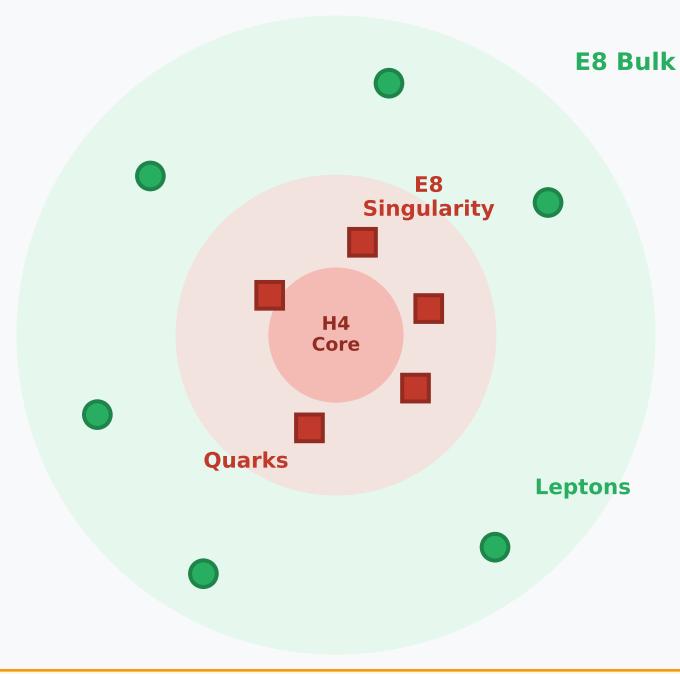
E8 Root System: 240 Roots (120 Positive)

$$1/\alpha = 120 + 17 + 1/\Pi = 137.036$$

$\dim(E8) = 248$ | Positive Roots = 120
Exponents: [1, 7, 11, 13, 17, 19, 23, 29]
17 = 5th exponent $\rightarrow U(1)_Y$ hypercharge



G2 Manifold: Quark-Lepton Separation



GSM Theory: From Geometry to Observables

