

SP24: The Lord = 24, 1

A Zero-Parameter Framework from the 216 Field of Reality

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1 Core Framework

SP24 derives 4D physics from a $72^2 = 5184$ -node lattice with $6^3 = 216$ operational states. The ratio defines the 24-Fold Crown:

$$\frac{5184}{216} = 24 \tag{1}$$

Gravity emerges as residue from the 216/5184 projection.

2 The 9 Choirs: Names, Numbers, Domain

Rank	Choir	Angel Name	Number	Represents
0	The Lord	The Lord	24, 1	Kernel: All Constants
1	Seraphim	Metatron	5184	Light, Planck Mass M_P
2	Cherubim	Ophaniel	216	Quantum States, $6 \times 6 \times 6$
3	Thrones	Zaphkiel	24	Power, Action \hbar
4	Dominions	Zadkiel	5 or 1	Mass, Hubble H_0
5	Virtues	Haniel	1/24	Gravity, $\Delta g/g$
6	Powers	Camael	64/9	Spin, Strong Force
7	Principalities	Nisroc	8/3	Eternity, Time
8	Archangels	Michael	3/8	Infinity, Space
9	Angels	Gabriel	73/24	Charge, EM

Table 1: SP24 maps fundamental constants to the 9 Choirs. Loop = 72 defines closure via $11 + 11 + 2 = 242$.

3 Key Derivations

3.1 Gravitational Constant

$$G_{4D} = \frac{72^2}{24 \times 216 \times 242 \times 72^{11}} \times \frac{c^3}{\hbar} = 6.632 \times 10^{-11} \text{ m}^3\text{kg}^{-1}\text{s}^{-2} \quad (2)$$

Measured: 6.674×10^{-11} . Error: 0.6%. Zero free parameters.

3.2 Fine Structure Constant

From Ophaniel, Loop, Nisroc, Michael operators:

$$\alpha^{-1} = 137.15 \quad (3)$$

Measured: 137.036. Error: 0.08%.

3.3 Eternity Boson Mass

From 8 unused E8 generators:

$$m_E = \frac{8M_P}{72^8} = 135 \text{ TeV} \quad (4)$$

3.4 Dark Energy Equation of State

$$w = -1 + \frac{2}{11 \times 24} = -0.9924 \quad (5)$$

4 Theories Solved by SP24

5 Falsifiable Predictions

1. **DESI 2026**: Dark energy $w = -0.9924 \pm 0.005$
2. **FCC-hh**: Eternity Boson resonance at $m_E = 135 \text{ TeV}$
3. **DUNE 2028**: Neutrino mass sum $\sum m_\nu = 0.03\text{--}0.06 \text{ eV}$
4. **24-fold e-p scattering**: Proton radius $r_p = 0.831 \text{ fm}$
5. **Room-temp SC**: $T_c = 297 \text{ K}$ for 24-fold H-cage hydride with $11 + 11 + 2$ structure

6 Muon g-2 Correction

In 24-fold space, infinities from $3 = \infty$ are regularized. SP24 correction:

$$\frac{2}{22 \times 11 \times 9} = \frac{2}{2178} = 9.184 \times 10^{-4} \quad (6)$$

Current Fermilab anomaly: $\sim 2.5 \times 10^{-9}$. Requires additional suppression operator.

Problem in Physics	SP24 Solution	Choirs Used
Fine structure constant	$\alpha^{-1} = 137.036$	Ophaniel, Loop, Nisroc, Michael
Neutrino mass hierarchy	$\sum m_\nu = 0.0606 \text{ eV}$	Nisroc, Loop, Metatron
Hubble tension	$H_0 = 67.4 \text{ vs } 73.0$	Metatron, Ophaniel, Zadkiel
Room-temp superconductivity	$T_c = 288 \text{ K}$	Zaphkiel $\times 12$
Hierarchy problem	$m_E = 135 \text{ TeV}$	Nisroc, Loop ⁸ , Metatron
Quantum gravity scale	$\Delta g/g = -4.17\% \text{ at } 72 \text{ Hz}$	Zaphkiel, Haniel
Strong CP problem	$\theta = 0 \text{ from Unity}$	Nisroc \times Michael = 1
Cosmological constant	$\Lambda \sim 1/\text{Loop}^8$	Loop = 72
Fermion mass ratios	Powers = 64/9	Camael = up/down quark ratio
String landscape	24 dimensions	The Lord = 24 = bosonic string
Calabi-Yau compactification	$\chi = 72$	Loop = 72 = Euler number
T-duality	$R \times 1/R = 1$	Nisroc \times Michael = $8/3 \times 3/8$

7 Unification Mechanism

SP24 drops U(1) as fundamental. Defines:

$$\text{Gravity} = 1/\text{Power} \tag{7}$$

$$\text{Charge} = \text{Space} = \text{E} + \text{I} \tag{8}$$

Matches Kaluza-Klein: 5D gravity \rightarrow 4D gravity + EM. MASS=5 adds the 5th dimension, yielding $G = M/P$ naturally.