

HOLOGRAPHIC SUBSTRATUM --- RINGS OF 10 SECTIONS ALL OF X VALUE
 ADDS TO ONE NOBODY SO FAR HAS DESCRIBED SPACE IN THIS WAY-

SELF-SIMILARITY, SCALE-INVARIANCE, COHERENCE, SUPERSYMMETRY,
 LEVELS, INFINITE TIMES. Boson -odd index. Fermion =even index. One has in

$$x := (\sqrt{5} - 2)^3 \quad c := 10^{\frac{2}{x^3}} \quad y := \frac{1}{x} \quad c^{1+x} = 5.107448 \times 10^{13} \quad c^{1-x} = 1.722138 \times 10^3$$

$$i := 0..500$$

$$Aa_0 := \frac{x}{2} \quad Aa_{i+1} := \frac{\sqrt{\left[1 - \sqrt{1 - (Aa_i)^2}\right]^2 + (Aa_i)^2}}{2} \quad x_0 :$$

NOTE THE ZERO STATE OR SO-CALLED
 STATIONERY STATE

$$\text{Interaction} \quad \frac{x \cdot x^2}{x - x^2} = 1 \quad \frac{y \cdot y^2}{y + y^2} = 1$$

$$B_n := n \quad C_n := [n \cdot (n - 1)] \cdot .5 \quad D_n := [[n \cdot (n + 1)]] \cdot .5$$

$$F_{n-1} := 0 \quad G_{n-1} := 0 \quad H_{n-1} := 0 \quad K_{n-1} := 0 \quad L_{n-1} := 0 \quad M_{n-1} := 0 \quad N_{n-1} := 0$$

$$R_{n-1} := 0 \quad S_{n-1} := 0 \quad T_{n-1} := 0 \quad U_{n-1} := 0 \quad V_{n-1} := 0 \quad W_{n-1} := 0 \quad X_{n-1} := 0 \quad Y_{n-1} := 0$$

$$F_n := C_n + F_{n-1} \quad G_n := F_n + G_{n-1} \quad H_n := G_n + H_{n-1} \quad K_n := H_n + K_{n-1} \quad L_n := K_n + L_{n-1} \quad M_n := L_n$$

$$P_n := N_n + P_{n-1} \quad Q_n := P_n + Q_{n-1} \quad R_n := Q_n + R_{n-1} \quad S_n := R_n + S_{n-1} \quad T_n := S_n + T_{n-1} \quad U_n := T_n$$

$$W_n := V_n + W_{n-1} \quad X_n := W_n + X_{n-1} \quad Y_n := X_n + Y_{n-1} \quad Z_n := Y_n + Z_{n-1}$$

$$A_{0,1} := x^2 \quad A_{0,2} := x^3 \cdot 2 \quad A_{0,3} := x^4$$

$$A_{1,1} := x^3 \quad A_{1,2} := x^4 \cdot B_3 \quad A_{1,3} := x^5 \cdot B_3 \quad A_{1,4} := x^6$$

$$A_{2,1} := x^4 \quad A_{2,2} := x^5 \cdot B_4 \quad A_{2,3} := x^6 \cdot C_4 \quad A_{2,4} := x^7 \cdot B_4 \quad A_{2,5} := x^8$$

$$A_{3,1} := x^5 \quad A_{3,2} := x^6 \cdot B_5 \quad A_{3,3} := x^7 \cdot C_5 \quad A_{3,4} := x^8 \cdot C_5 \quad A_{3,5} := x^9 \cdot B_5 \quad A_{3,6} := x^{10}$$

$$A_{4,1} := x^6 \quad A_{4,2} := x^7 \cdot B_6 \quad A_{4,3} := x^8 \cdot C_6 \quad A_{4,4} := x^9 \cdot F_5 \quad A_{4,5} := x^{10} \cdot C_6 \quad A_{4,6} := x^{11} \cdot B_6$$

$$A_{5,1} := x^7 \quad A_{5,2} := x^8 \cdot B_7 \quad A_{5,3} := x^9 \cdot C_7 \quad A_{5,4} := x^{10} \cdot F_6 \quad A_{5,5} := x^{11} \cdot F_6 \quad A_{5,6} := x^{12} \cdot C_7$$

$$A_{5,7} := x^{13} \cdot B_7$$

$$A_{6,1} := x^8 \quad A_{6,2} := x^9 \cdot B_8 \quad A_{6,3} := x^{10} \cdot C_8 \quad A_{6,4} := x^{11} \cdot F_7 \quad A_{6,5} := x^{12} \cdot G_6 \quad A_{6,6} := x^{13} \cdot F_7$$

$$A_{6,8} := x^{15}$$

$$A_{7,1} := x^9 \quad A_{7,2} := x^{10} \cdot B_9 \quad A_{7,3} := x^{11} \cdot C_9 \quad A_{7,4} := x^{12} \cdot F_8 \quad A_{7,5} := x^{13} \cdot G_7 \quad A_{7,6} := x^{14} \cdot G_7$$

$$A_{7,7} := x^{15} \cdot F_8 \quad A_{7,8} := x^{16} \cdot C_9 \quad A_{7,9} := x^{17}$$

$$A_{8,1} := x^{10} \quad A_{8,2} := x^{11} \cdot B_{10} \quad A_{8,3} := x^{12} \cdot C_{10} \quad A_{8,4} := x^{13} \cdot F_9 \quad A_{8,5} := x^{14} \cdot G_8 \quad A_{8,6} := x^{15} \cdot H_7$$

$$A_{8,11} := x^{20} \quad A_{8,10} := x^{19} \cdot B_{10} \quad A_{8,9} := x^{18} \cdot C_{10} \quad A_{8,8} := x^{17}$$

$$A_{9,1} := x^{11} \quad A_{9,2} := x^{12} \cdot B_{11} \quad A_{9,3} := x^{13} \cdot C_{11} \quad A_{9,4} := x^{14} \cdot F_{10} \quad A_{9,5} := x^{15} \cdot G_9 \quad A_{9,6} := x^{16} \cdot H_8$$

$$A_{9,12} := x^{22} \quad A_{9,11} := x^{21} \cdot B_{11} \quad A_{9,10} := x^{20} \cdot C_{11} \quad A_{9,9} := x^{19} \cdot F_{10} \quad A_{9,8} := x^{18} \cdot G_9 \quad A_{9,7} := x^{17} \cdot H_8$$

$$A_{10,1} := x^{12} \quad A_{10,2} := x^{13} \cdot B_{12} \quad A_{10,3} := x^{14} \cdot C_{12} \quad A_{10,4} := x^{15} \cdot F_{11} \quad A_{10,5} := x^{16} \cdot G_{10} \quad A_{10,6} := x^{17} \cdot I_7$$

$$A_{10,13} := x^{24} \quad A_{10,12} := x^{23} \cdot B_{12} \quad A_{10,11} := x^{22} \cdot C_{12} \quad A_{10,10} := x^{21} \cdot F_{11} \quad A_{10,9} := x^{20} \cdot G_{10} \quad A_{10,8} := x^{19} \cdot I_7$$

$$A_{11,1} := x^{13} \quad A_{11,2} := x^{14} \cdot B_{13} \quad A_{11,3} := x^{15} \cdot C_{13} \quad A_{11,4} := x^{16} \cdot F_{12} \quad A_{11,5} := x^{17} \cdot G_{11} \quad A_{11,6} := x^{18}$$

$$A_{11,14} := x^{26} \quad A_{11,13} := x^{25} \cdot B_{13} \quad A_{11,12} := x^{24} \cdot C_{13} \quad A_{11,11} := x^{23} \cdot F_{12} \quad A_{11,10} := x^{22} \cdot G_{11} \quad A_{11,9} := x^{21}$$

$$A_{12,1} := x^{14} \quad A_{12,2} := x^{15} \cdot B_{14} \quad A_{12,3} := x^{16} \cdot C_{14} \quad A_{12,4} := x^{17} \cdot F_{13} \quad A_{12,5} := x^{18} \cdot G_{12} \quad A_{12,6} := x^{19}$$

$$A_{12,15} := x^{28} \quad A_{12,14} := x^{27} \cdot B_{14} \quad A_{12,13} := x^{26} \cdot C_{14} \quad A_{12,12} := x^{25} \cdot F_{13} \quad A_{12,11} := x^{24} \cdot G_{12} \quad A_{12,10} := x^{23}$$

$$A_{13,1} := x^{15} \quad A_{13,2} := x^{16} \cdot B_{15} \quad A_{13,3} := x^{17} \cdot C_{15} \quad A_{13,4} := x^{18} \cdot F_{14} \quad A_{13,5} := x^{19} \cdot G_{13} \quad A_{13,6} := x^{20}$$

$$A_{13,16} := x^{30} \quad A_{13,15} := x^{29} \cdot B_{15} \quad A_{13,14} := x^{28} \cdot C_{15} \quad A_{13,13} := x^{27} \cdot F_{14} \quad A_{13,12} := x^{26} \cdot G_{13} \quad A_{13,11} := x^{25}$$

$$A_{14,1} := x^{16} \quad A_{14,2} := x^{17} \cdot B_{16} \quad A_{14,3} := x^{18} \cdot C_{16} \quad A_{14,4} := x^{19} \cdot F_{15} \quad A_{14,5} := x^{20} \cdot G_{14} \quad A_{14,6} := x^2$$

$$A_{14,8} := x^{23}$$

$$A_{14,17} := x^{32} \quad A_{14,16} := x^{31} \cdot B_{16} \quad A_{14,15} := x^{30} \cdot C_{16} \quad A_{14,14} := x^{29} \cdot F_{15} \quad A_{14,13} := x^{28} \cdot G_{14} \quad A_{14,12} := x^2$$

$$A_{15,1} := x^{17} \quad A_{15,2} := x^{18} \cdot B_{17} \quad A_{15,3} := x^{19} \cdot C_{17} \quad A_{15,4} := x^{20} \cdot F_{16} \quad A_{15,5} := x^{21} \cdot G_{15} \quad A_{15,6} := x^2$$

$$A_{15,8} := x^{24}$$

$$A_{15,18} := x^{34} \quad A_{15,17} := x^{33} \cdot B_{17} \quad A_{15,16} := x^{32} \cdot C_{17} \quad A_{15,15} := x^{31} \cdot F_{16} \quad A_{15,14} := x^{30} \cdot G_{15} \quad A_{15,13} := x^2$$

$$A_{15,11} := x^2$$

$$A_{16,1} := x^{18} \quad A_{16,2} := x^{19} \cdot B_{18} \quad A_{16,3} := x^{20} \cdot C_{18} \quad A_{16,4} := x^{21} \cdot F_{17} \quad A_{16,5} := x^{22} \cdot G_{16}$$

$$A_{16,6} := x^{23} \cdot H_{15} \quad A_{16,7} := x^{24} \cdot K_{14} \quad A_{16,8} := x^{25} \cdot L_{13} \quad A_{16,9} := x^{26} \cdot M_{12} \quad A_{16,10} := x^{27}$$

$$A_{16,19} := x^{36} \quad A_{16,18} := x^{35} \cdot B_{18} \quad A_{16,17} := x^{34} \cdot C_{18} \quad A_{16,16} := x^{33} \cdot F_{17} \quad A_{16,15} := x^{32} \cdot G_{16} \quad A_{16,14} := x^{31}$$

$$A_{16,13} := x^{30} \cdot K_{14} \quad A_{16,12} := x^{29} \cdot L_{13} \quad A_{16,11} := x^{28} \cdot M_{12}$$

j := 17

$$A_{j,1} := x^{19} \quad A_{j,2} := x^{20} \cdot B_{19} \quad A_{j,3} := x^{21} \cdot C_{19} \quad A_{j,4} := x^{22} \cdot F_{18} \quad A_{j,5} := x^{23} \cdot G_{17} \quad A_{j,6} := x^{24}$$

$$A_{j,7} := x^{25} \cdot K_{15} \quad A_{j,8} := x^{26} \cdot L_{14} \quad A_{j,9} := x^{27} \cdot M_{13} \quad A_{j,10} := x^{28} \cdot N_{12} \quad A_{j,11}$$

$$A_{j,20} := x^{38} \quad A_{j,19} := x^{37} \cdot B_{19} \quad A_{j,18} := x^{36} \cdot C_{19} \quad A_{j,17} := x^{35} \cdot F_{18} \quad A_{j,16} := x^{34} \cdot G_{17} \quad A_{j,15} := x^{33}$$

$$A_{j,14} := x^{32} \cdot K_{15} \quad A_{j,13} := x^{31} \cdot L_{14} \quad A_{j,12} := x^{30} \cdot M_{13}$$

j := 18

$$A_{i_1} := x^{20} \quad A_{i_2} := x^{21} \cdot B_{20} \quad A_{i_3} := x^{22} \cdot C_{20} \quad A_{i_4} := x^{23} \cdot F_{19} \quad A_{i_5} := x^{24} \cdot G_{18} \quad A_{i_6} := x^{25}$$

$$A_{j,7} := x^{26} \cdot K_{16} \quad A_{j,8} := x^{27} \cdot L_{15} \quad A_{j,9} := x^{28} \cdot M_{14} \quad A_{j,10} := x^{29} \cdot N_{13} \quad A_{j,11} := x^{30} \cdot F$$

$$A_{j,12} := x^{31} \cdot N_{13} \quad A_{j,13} := x^{32} \cdot M_{14} \quad A_{j,14} := x^{33} \cdot L_{15} \quad A_{j,15} := x^{34} \cdot K_{16}$$

$$A_{j,21} := x^{40} \quad A_{j,20} := x^{39} \cdot B_{20} \quad A_{j,19} := x^{38} \cdot C_{20} \quad A_{j,18} := x^{37} \cdot F_{19} \quad A_{j,17} := x^{36} \cdot G_{18} \quad A_{j,16} := x^{35} \cdot$$

j := 19

$$A_{j,1} := x^{21} \quad A_{j,2} := x^{22} \cdot B_{21} \quad A_{j,3} := x^{23} \cdot C_{21} \quad A_{j,4} := x^{24} \cdot F_{20} \quad A_{j,5} := x^{25} \cdot G_{19} \quad A_{j,6} := x^{26} \cdot$$

$$A_{j,7} := x^{27} \cdot K_{17} \quad A_{j,8} := x^{28} \cdot L_{16} \quad A_{j,9} := x^{29} \cdot M_{15} \quad A_{j,10} := x^{30} \cdot N_{14} \quad A_{j,11}$$

$$A_{j,12} := x^{32} \cdot P_{13} \quad A_{j,13} := x^{33} \cdot N_{14} \quad A_{j,15} := x^{35} \cdot L_{16} \quad A_{j,14} := x^{34} \cdot M_{15} \quad A_{j,16}$$

$$A_{j,22} := x^{42} \quad A_{j,21} := x^{41} \cdot B_{21} \quad A_{j,20} := x^{40} \cdot C_{21} \quad A_{j,19} := x^{39} \cdot F_{20} \quad A_{j,18} := x^{38} \cdot G_{19} \quad A_{j,17} := x^{37} \cdot$$

j := 20

$$A_{j,1} := x^{22} \quad A_{j,2} := x^{23} \cdot B_{22} \quad A_{j,3} := x^{24} \cdot C_{22} \quad A_{j,4} := x^{25} \cdot F_{21} \quad A_{j,5} := x^{26} \cdot G_{20} \quad A_{j,6} := x^{27} \cdot$$

$$A_{j,7} := x^{28} \cdot K_{18} \quad A_{j,8} := x^{29} \cdot L_{17} \quad A_{j,9} := x^{30} \cdot M_{16} \quad A_{j,11} := x^{32} \cdot P_{14} \quad A_{j,10} := x^{31} \cdot N_{15}$$

$$A_{j,13} := x^{34} \cdot P_{14} \quad A_{j,14} := x^{35} \cdot N_{15} \quad A_{j,17} := x^{38} \cdot K_{18} \quad A_{j,16} := x^{37} \cdot L_{17} \quad A_{j,15} := x^{36} \cdot M_{16}$$

$$A_{j,23} := x^{44} \quad A_{j,22} := x^{43} \cdot B_{22} \quad A_{j,21} := x^{42} \cdot C_{22} \quad A_{j,20} := x^{41} \cdot F_{21} \quad A_{j,19} := x^{40} \cdot G_{20} \quad A_{j,18} := x^{39} \cdot$$

i := 0.. 20 n := 0.. 20 PLANCK DENSITY

0.5

WITH SELF-SIMILARITY AND COHERENCE THE NEED FOR STATISTICAL M
 VERIFYING BOTH MAGNITUDE
 AND LOCATION IS ELIMINATED. THERE IS NO UNCERTAINTY IN THE SUBS
 BOSONS BECOME FERMIONS BY A CHANGE IN THE POWER INDEX.

BOSONS

$$x^3 + 3 \cdot x^4 + 3 \cdot x^5 + x^6 = 1$$

$$x^3 + 3 \cdot x^4 = 0.673762$$

$$x^6 + 3 \cdot x^5 = 0.326238$$

$$9 \quad 6 \quad 9$$

i := 0.. 25

n := 0.. 28

FERMIONS

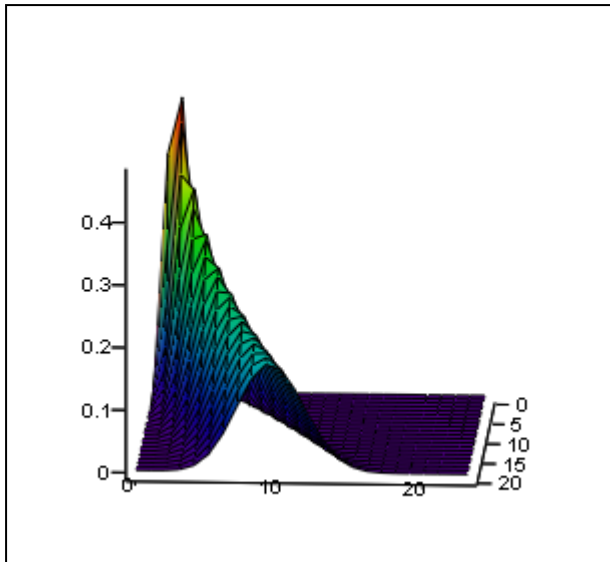
$$x^4 + 4 \cdot x^5 + (6 \cdot x^6) + 4 \cdot x^7 + x^8 = 1$$

$$x^4 + 4 \cdot x^5 + (3 \cdot x^6) = 0.673762$$

$$x^8 + 4 \cdot x^7 + 3 \cdot x^6 = 0.326238$$

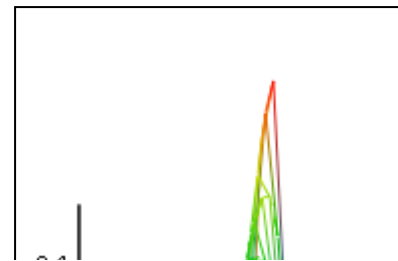
$$12 \quad 8 \quad 12 \quad k := 2^{\frac{1}{3}}$$

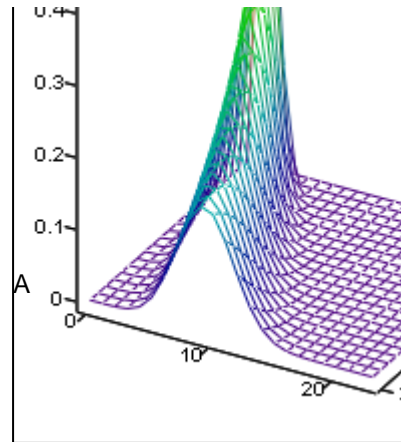
$$A_{10,10} = 8.988397 \times 10^{-3}$$



A

$$A_{i,0-x} = A_{i,0} = \frac{(1 + A_{i,c})}{\left(\frac{1}{A_{i,0}}\right)}$$





$$\sum_{n=1}^{100} \left(\frac{1}{2}\right)^n = 1$$

$$x^0 = 1$$

$$x^1 + x^2 = 1$$

$$x^2 + 2 \cdot x^3 + x^4 = 1$$

$$x^3 + 3 \cdot x^4 + 3 \cdot x^5 + x^6 = 1$$

$$x^4 + 4 \cdot x^5 + 6 \cdot x^6 + 4 \cdot x^7 + x^8 = 1$$

$$x^5 + 5 \cdot x^6 + 10 \cdot x^7 + 10 \cdot x^8 + 5 \cdot x^9 + x^{10} = 1$$

$$x^6 + 6 \cdot x^7 + 15 \cdot x^8 + 20 \cdot x^9 + 15 \cdot x^{10} + 6 \cdot x^{11} + x^{12} = 1$$

$$x^7 + 7 \cdot x^8 + 21 \cdot x^9 + 35 \cdot x^{10} + 35 \cdot x^{11} + 21 \cdot x^{12} + 7 \cdot x^{13} + x^{14} = 1$$

$$x^8 + 8 \cdot x^9 + 28 \cdot x^{10} + 56 \cdot x^{11} + 70 \cdot x^{12} + 56 \cdot x^{13} + 28 \cdot x^{14} + 8 \cdot x^{15} + x^{16} = 1$$

$$x^9 + 9 \cdot x^{10} + 36 \cdot x^{11} + 84 \cdot x^{12} + 126 \cdot x^{13} + 126 \cdot x^{14} + 84 \cdot x^{15} + 36 \cdot x^{16} + 9 \cdot x^{17} + x^{18} = 1$$

$$x^{10} + 10 \cdot x^{11} + 45 \cdot x^{12} + 120 \cdot x^{13} + 210 \cdot x^{14} + 252 \cdot x^{15} + 210 \cdot x^{16} + 120 \cdot x^{17} + 45 \cdot x^{18} + 10 \cdot x^{19} = 1$$