

D7_WeakForce_QFT_Demo

November 17, 2025

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[1]: import sympy as sp

# D7 Weak Force: Wave-Only QFT Parity Violation Mode
parity_offset = sp.Rational(1, 2) # Parity asymmetry for left-right violation
def d7_mariano(n_max):
    seq = [0] * (n_max + 1)
    seq[1] = 1
    seq[2] = 1
    for i in range(3, n_max + 1):
        seq[i] = seq[i-1] + seq[i-2] + parity_offset * (i - 1)
    return seq[1:]

modes_d7 = d7_mariano(20)
for i, m in enumerate(modes_d7, 1):
    print(f"D7-M_{i}: {float(m):.2f}")

light_paths_d7 = 47185920 * parity_offset # ERT D4 base * D7 offset
print("D7 Parity Violation Paths:", int(light_paths_d7))

core_freq_d7 = 105.9 * parity_offset
print("D7 Weak Force Freq (Hz):", round(float(core_freq_d7), 2))
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D7-M_1: 1.00
D7-M_2: 1.00
D7-M_3: 3.00
D7-M_4: 5.50
D7-M_5: 10.50
D7-M_6: 18.50
D7-M_7: 32.00
D7-M_8: 54.00
D7-M_9: 90.00
D7-M_10: 148.50
D7-M_11: 243.50
D7-M_12: 397.50
D7-M_13: 647.00
D7-M_14: 1051.00
D7-M_15: 1705.00
D7-M_16: 2763.50
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D7-M_17: 4476.50
D7-M_18: 7248.50
D7-M_19: 11734.00
D7-M_20: 18992.00
D7 Parity Violation Paths: 23592960
D7 Weak Force Freq (Hz): 52.95

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[2]: # Verification: Axiom 2 Synchronization
      assert int(light_paths_d7) == 23592960, "Parity paths mismatch"
      print("D7 verified: Parity violation mode stable.")
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