Mathematica Stone Validation 4

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(*Define Core Variables*)ClearAll[C, M, \[CurlyPhi], \[Omega], t, S,
\[Phi], feedback, \[Psi], mc2]

(*Core Parameters*)
M = 1; (*Organizing principle:coherence driver*)
\[CurlyPhi] = (1 + Sqrt[5])/2; (*Golden ratio scaling*)
\[Omega] = 1; (*Angular frequency*)
S = \[Pi]/4; (*Symmetry constant*)
\[Phi] = \[Pi]/6; (*Phase shift*)
feedback[i_] := 0.2 (i - 1); (*Feedback mechanism*)
\[Psi][i_] := Sin[i]; (*Resonance function*)
mc2 = 1; (*Relativistic energy constant*)

(*Define Lumin Equation Without Tesla's Harmonics*)
LuminEquationWithout[t_, i_] :=
 M \[CurlyPhi]^i (Sin[\[Omega] t + S] + Cos[\[Omega] t + \[Phi]]) +
\[Psi][i] + feedback[i] + mc2

(*Generate Coherence Values Without Tesla's Harmonics*)
coherenceWithout = Table[LuminEquationWithout[t, i], {t, 0, 10, 0.5},
{i, 1, 5}];

(*Compare Numerical Metrics for Coherence Without Harmonics*)
avgCoherenceWithout = Mean[Flatten[coherenceWithout]];

(*Display Coherence Table*)
coherenceTableWithout = TableForm[
 Table[{t, i, LuminEquationWithout[t, i]}, {t, 0, 10, 0.5}, {i, 1, 5}],
 TableHeadings -> {"Time (t)", "Index (i)", "Coherence (C_i) Without
Harmonics"}];

(*Output Coherence Table*)
coherenceTableWithout

(*Plot Coherence Over Time Without Tesla's Harmonics*)
Manipulate[
 Plot[LuminEquationWithout[t, i], {t, 0, 10},
  PlotLegends -> {"Without Tesla Harmonics"},
  AxesLabel -> {"Time (t)", "Coherence (C_i)"}, PlotStyle -> Thick,
  Epilog -> {Text[Style["Base Lumin Equation Without Harmonics", Bold,
Blue], {5, 2}]}],
 {{i, 1}, 1, 5, "Index (i)"}]

(*Feedback Simulation Without Tesla's Harmonics*)
feedbackFunction[state_, target_] := state + 0.1 (target - state);
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DynamicModule[{state = RandomReal[{-1, 1}, 10], target = 0},
 Manipulate[
  ListLinePlot[NestList[feedbackFunction[#, target] &, state, 50],
   PlotRange -> {{0, 50}, {-1, 1}},
   AxesLabel -> {"Iteration", "System State"}, PlotStyle -> Thick,
   Epilog -> {Text[Style["Feedback Stabilization Without Harmonics",
Bold, Red], {25, 0.8}],
              Text[Style["Initial Chaos", Bold, Black], {5, 0.6}]}],
  {{target, 0}, -1, 1, "Target State"}]]

(*Harmonic Scaling Without Tesla's Harmonics*)
goldenFractal[n_] := Table[{\[CurlyPhi]^i Cos[i], \[CurlyPhi]^i
Sin[i]}, {i, 0, n, 0.1}] /. \[CurlyPhi] -> (1 + Sqrt[5])/2;

Graphics[Line[goldenFractal[50]], PlotRange -> {{-5, 5}, {-5, 5}}, Axes
-> True,
 AxesLabel -> {"X", "Y"},
 Epilog -> {Text[Style["Golden Ratio Scaling Without Harmonics", Bold,
Blue], {0, 4}]}]

(*Composite Visualization Without Tesla's Harmonics*)
DynamicModule[{state = RandomReal[{-1, 1}, 10], \[CurlyPhi] = (1 +
Sqrt[5])/2, \[Omega] = 1, tmax = 10},
 Manipulate[
  GraphicsRow[{Plot[Sin[\[Omega] t + S] + Cos[\[Omega] t + \[Phi]], {t,
0, tmax},
                  PlotRange -> {-2, 2}, AxesLabel -> {"Time (t)",
"Oscillations"},
                  PlotStyle -> Thick,
                  Epilog -> {Text[Style["Oscillations (Sin + Cos)
Without Harmonics", Bold, Blue], {5, 1.5}]}],
               ListLinePlot[NestList[# + 0.1 (0 - #) &, state, 50],
                            PlotRange -> {{0, 50}, {-1, 1}},
                            AxesLabel -> {"Iteration", "Feedback"},
                            Epilog -> {Text[Style["Feedback
Stabilization Without Harmonics", Bold, Red], {25, 0.8}]}],
               Graphics[Line[Table[{\[CurlyPhi]^i Cos[i],
\[CurlyPhi]^i Sin[i]}, {i, 0, 10, 0.1}]],
                        PlotRange -> {{-5, 5}, {-5, 5}}, Axes -> True,
                        Epilog -> {Text[Style["Golden Ratio Scaling",
Bold, Blue], {0, 4}]}]}]]]

(*Average Coherence Value Without Harmonics*)
avgCoherenceWithout
```