

Mathematica Stone Validation 3

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

LuminEquationWith[t_, i_] :=
  M \[CurlyPhi]^i (Sin\[Omega] t + S + Cos\[Omega] t + \[Phi] +
  Sin[3 \[Omega] t] + Sin[6 \[Omega] t] + Sin[9 \[Omega] t]) + \[Psi][i]
  + feedback[i] + mc2

(*Generate Coherence Values for Both Cases*)
coherenceWithout = Table[LuminEquationWithout[t, i], {t, 0, 10, 0.5},
{i, 1, 5}];
coherenceWith = Table[LuminEquationWith[t, i], {t, 0, 10, 0.5}, {i, 1,
5}];

(*Compare Coherence Values*)
comparisonTable = TableForm[Table[{t, i, LuminEquationWithout[t, i],
LuminEquationWith[t, i]}, {t, 0, 10, 0.5}, {i, 1, 5}], TableHeadings ->
{"Time (t)", "Index (i)", "Without Harmonics", "With Harmonics"}];

(*Plot Coherence Over Time for Both Cases*)
Manipulate[Plot[{LuminEquationWithout[t, i], LuminEquationWith[t, i]},
{t, 0, 10}, PlotLegends -> {"Without Tesla Harmonics", "With Tesla
Harmonics"}, AxesLabel -> {"Time (t)", "Coherence (C_i)"}, Epilog ->
{Text[Style["Tesla's 3, 6, 9 Harmonics Amplify Coherence", Bold,
Green], {5, 2}]}], {{i, 1}, 1, 5, "Index (i)"}]

(*Simulate Resonance in Energy Grids*)
energyResonance[t_, \[Omega]1_, \[Omega]2_, \[Omega]3_] := Sin[3
\[Omega]1 t] + Sin[6 \[Omega]2 t] + Sin[9 \[Omega]3 t];

Manipulate[Plot[energyResonance[t, \[Omega]1, \[Omega]2, \[Omega]3],
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{t, 0, 10}, PlotRange -> {-3, 3}, AxesLabel -> {"Time (t)", "Resonance Amplitude"}, PlotLegends -> {"Energy Oscillations"}, Epilog -> {Text[Style["Energy Resonance: Tesla's 3, 6, 9", Bold, Green], {5, 2}]}], {{\[\Omega]1, 1}, 0.5, 5, "Frequency 1 (\[\Omega]1)"}, {{\[\Omega]2, 1}, 0.5, 5, "Frequency 2 (\[\Omega]2)"}, {{\[\Omega]3, 1}, 0.5, 5, "Frequency 3 (\[\Omega]3)"}}
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(*Simulate Vibration Patterns With and Without Tesla Harmonics*)
vibrationPattern[t_, harmonic_] := If[harmonic, Sin[3 \[\Omega] t] + Sin[6 \[\Omega] t] + Sin[9 \[\Omega] t], Sin[\[\Omega] t]];
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Manipulate[Plot[vibrationPattern[t, harmonic], {t, 0, 10}, PlotRange -> {-3, 3}, AxesLabel -> {"Time (t)", "Vibration Amplitude"}, PlotLegends -> If[harmonic, {"With Tesla Harmonics"}, {"Without Harmonics"}], Epilog -> {If[harmonic, Text[Style["Aligned Vibrations with Tesla's Harmonics", Bold, Green], {5, 2}], Text[Style["Standard Vibrations", Bold, Blue], {5, 2}]}], {{harmonic, True}, {True, False}, "Include Tesla Harmonics?"}]
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