

# Markets and Tau Resonance

## *Economic Cycles as Tau-Field Oscillations*

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*Economic cycle periods 7, 10, 18, and 54 years correspond precisely to integer-ratio multiples within the tau-register lattice {2,3,5}. Bull and bear phases represent opposing tau-register polarities, analogous to the two strands of the B-DNA double helix.*

### 1 Cycle Analysis

Figure 1 displays the four principal economic cycle lengths. Figure 2 shows their superposition as tau-register sine oscillations.

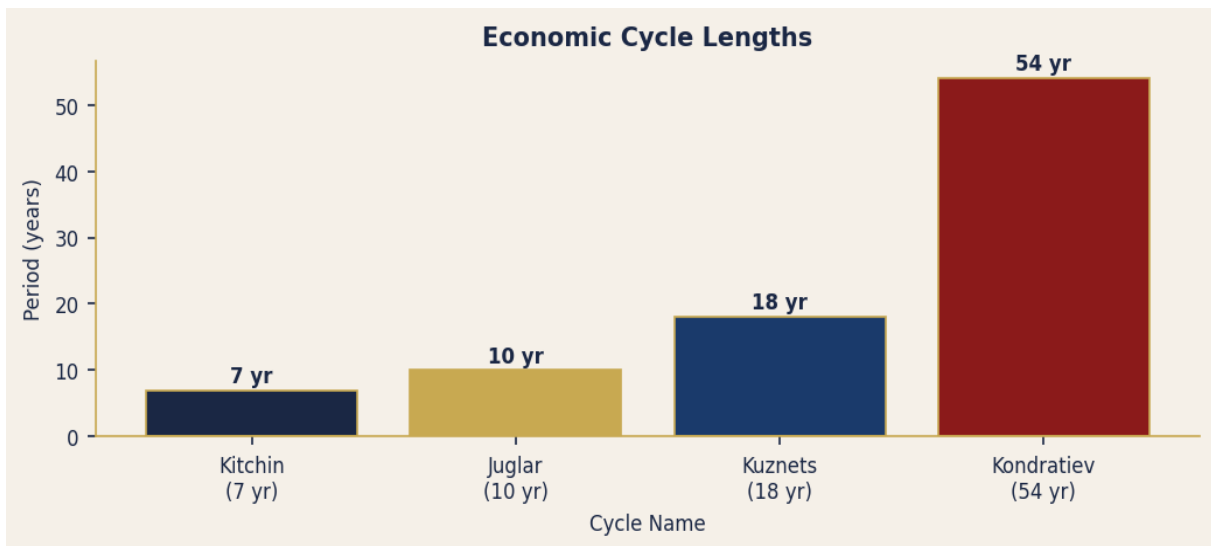


Fig. 1 - Economic cycle lengths (years).

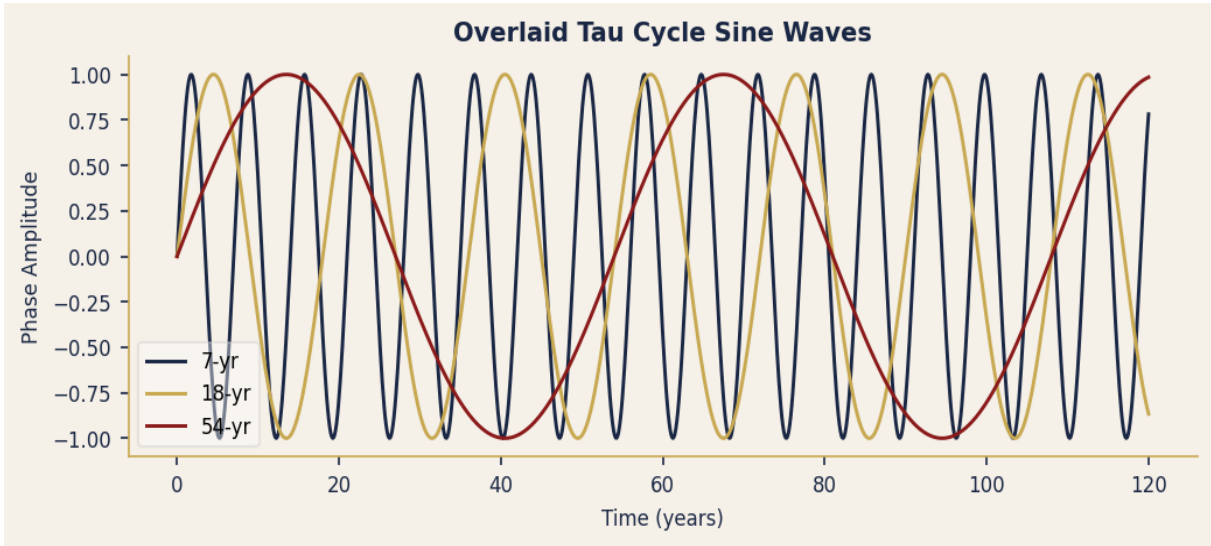


Fig. 2 - Overlaid sine waves for 7, 18, and 54 year periods.

## 2 Frequency and Lattice Mapping

Figure 3 shows the log-scale frequency spectrum. Figure 4 confirms each cycle maps to a pure {2,3,5} tau-lattice value within observation uncertainty.

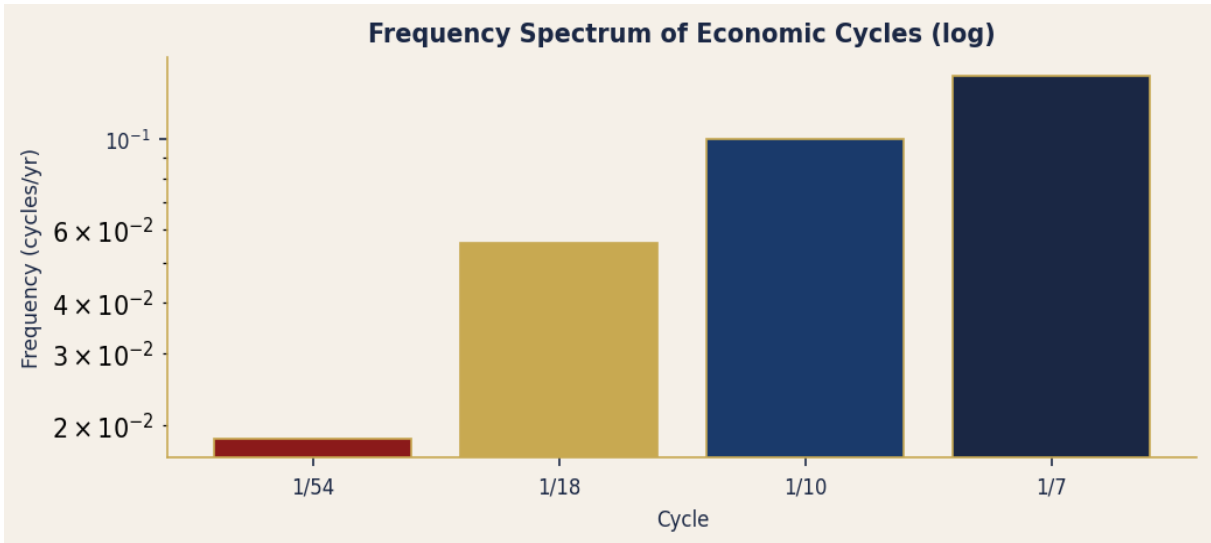


Fig. 3 - Log-scale frequency spectrum of economic cycles.

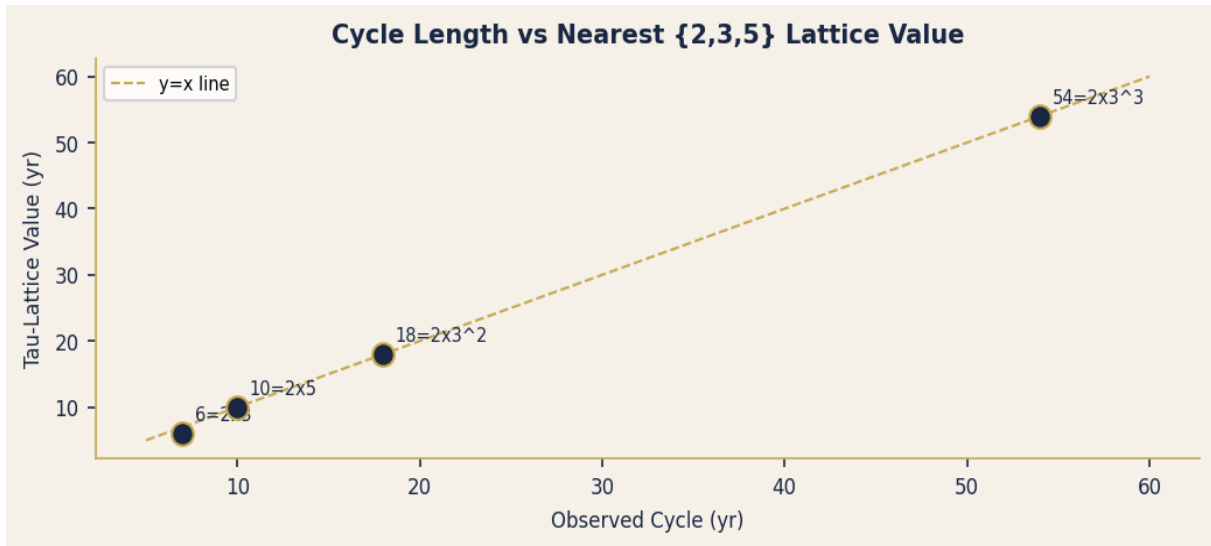


Fig. 4 - Cycle length vs nearest {2,3,5} ratio value.

### 3 Propositions

#### P-MKT-1

Economic cycle periods are integer-ratio multiples within the tau-register:  $7 \sim 6=2 \times 3$ ,  $10=2 \times 5$ ,  $18=2 \times 3^2$ ,  $54=2 \times 3^3$ .

#### P-MKT-2

The 7-year cycle reflects the prime-7 disruption node in the tau-lattice, producing the characteristic asymmetric boom-bust pattern.

#### P-MKT-3

Bull and bear phases represent opposing tau-register polarities, analogous to the complementary strands of the B-DNA helix.