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Volatility aggregation intensity energy futures series on stochastic finite-range exclusion dynamics

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## Highlights

- (1) A new stochastic financial price dynamics model is developed.
- (2) A novel statistic called volatility aggregation intensity (VAI) is firstly introduced.
- (3) Cross-correlation, volatility-clustering and multifractality of VAI are investigated.
- (4) Empirical results show the feasibility of proposed price model and VAI series.

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