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 $\bullet \quad \textbf{GitHub}: \ \text{https://github.com/loning/universe/tree/cosmos/publication/papers/PHY-longers} \\ \text{--} \quad \textbf{Cosmos/publication/papers/PHY-longers} \\ \text{--} \quad \textbf{--} \quad \textbf{--}$

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Author Contributions

Auric conceptualized the XOR-SHIFT framework, developed the mathematical formalism, designed the simulation protocols, and wrote the manuscript.

Author Statement

I, as the sole author of this work, have made all substantial contributions to the conception, analysis, and writing of this paper. I have approved the final version for submission and take full responsibility for all aspects of the work including its accuracy and integrity.

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