On Krylov complexity in open systems: an approach via bi-Lanczos algorithm

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ABSTRACT: Continuing the previous initiatives [1, 2], we pursue the exploration of operator growth and Krylov complexity in dissipative open quantum systems. In this paper, we resort to the bi-Lanczos algorithm generating two bi-orthogonal Krylov spaces, which individually generate non-orthogonal subspaces. Unlike the previously studied Arnoldi iteration, this algorithm renders the Lindbladian into a purely tridiagonal form, thus opening up a possibility to study a wide class of dissipative integrable and chaotic systems by computing Krylov complexity at late times. Our study relies on two specific systems, the dissipative transverse-field Ising model (TFIM) and the dissipative interacting XXZ chain. We find that, for the weak coupling, initial Lanczos coefficients can efficiently distinguish integrable and chaotic evolution before the dissipative effect sets in, which results in more fluctuations in higher Lanczos coefficients. This results in the equal saturation of late-time complexity for both integrable and chaotic cases, making the notion of late-time chaos dubious.

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Table of Contents Computational Complexity Study On Krylov Integration

1. Understanding the eBook Computational Complexity Study On Krylov Integration
    - The Rise of Digital Reading Computational Complexity Study On Krylov Integration
    - Advantages of eBooks Over Traditional Books
2. Identifying Computational Complexity Study On Krylov Integration
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Computational Complexity Study On Krylov Integration
    - User-Friendly Interface
4. Exploring eBook Recommendations from Computational Complexity Study On Krylov Integration
    - Personalized Recommendations
    - Computational Complexity Study On Krylov Integration User Reviews and Ratings
    - Computational Complexity Study On Krylov Integration and Bestseller Lists
5. Accessing Computational Complexity Study On Krylov Integration Free and Paid eBooks
    - Computational Complexity Study On Krylov Integration Public Domain eBooks
    - Computational Complexity Study On Krylov Integration eBook Subscription Services
    - Computational Complexity Study On Krylov Integration Budget-Friendly Options

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