

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.

Computational Complexity Study On Krylov Integration

Tao Wei



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Mathematical Reviews, 2006 **Approximation of Large-Scale Dynamical Systems** Athanasios C. Antoulas, 2009-06-25 Mathematical models are used to simulate and sometimes control the behavior of physical and artificial processes such as the weather and very large scale integration VLSI circuits The increasing need for accuracy has led to the development of highly complex models However in the presence of limited computational accuracy and storage capabilities model reduction system approximation is often necessary *Approximation of Large Scale Dynamical Systems* provides a comprehensive picture of model reduction combining system theory with numerical linear algebra and computational considerations It addresses the issue of model reduction and the resulting trade offs between accuracy and complexity Special attention is given to numerical aspects simulation questions and practical applications **Dissertation Abstracts International**, 2008 **Energy Research Abstracts**, 1993 **NASA SP-7500** United States. National Aeronautics and Space Administration, **Management**, 1991 **Management, a Bibliography for NASA Managers**, 1991 **Russian Journal of General Chemistry**, 2003 *Government Reports Announcements & Index*, 1990 *Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards*, 2006 *International Aerospace Abstracts*, 1999 [Studies in Chemical Reaction Engineering](#) Prasana Krishnamurthi Venkatesh, 1997 *Numerical Analysis and Partial Differential Equations* George Elmer Forsythe, Paul C. Rosenbloom, 1958 These survey articles as any of their kind have the primary objective of accounting in a summary fashion

for the state of the fields which they cover as determined by contributing developments at various times and in many places Considering the sustained growth of mathematics itself as well as the intensive use of an ever increasing number of its branches in diversified applied contexts the availability of such surveys in selected areas is believed to fill a real need The present articles are therefore aimed not so much at research specialists actively contributing to the subjects discussed as they are aimed at a broader mathematically literate audience looking for contemporary information on the important problems and results in these disciplines whether it be for use in classroom and seminar or for the sake of possible application to problems in other fields of science and engineering or simply for reasons of personal interest The selection of the areas surveyed as well as their coverage was further guided by giving first consideration to developments of whose current state no comprehensive picture could be obtained by going only to the readily accessible literature in familiar languages It is a unique distinction of the mathematical community to have never been taken in by the myth now generally shattered that Russian science merely followed the lead of the West at a respectful distance Mathematicians remained aware of the vigorous development during the postwar years of research in their field also in the Communist countries and they knew of the steady stream of important results which they produced

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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
6. Navigating Computational Complexity Study On Krylov Integration eBook Formats
 - ePub, PDF, MOBI, and More
 - Computational Complexity Study On Krylov Integration Compatibility with Devices
 - Computational Complexity Study On Krylov Integration Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Computational Complexity Study On Krylov Integration
 - Highlighting and Note-Taking Computational Complexity Study On Krylov Integration
 - Interactive Elements Computational Complexity Study On Krylov Integration
8. Staying Engaged with Computational Complexity Study On Krylov Integration
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Computational Complexity Study On Krylov Integration
9. Balancing eBooks and Physical Books Computational Complexity Study On Krylov Integration
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Computational Complexity Study On Krylov Integration
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Computational Complexity Study On Krylov Integration
 - Setting Reading Goals Computational Complexity Study On Krylov Integration
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Computational Complexity Study On Krylov Integration
 - Fact-Checking eBook Content of Computational Complexity Study On Krylov Integration
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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