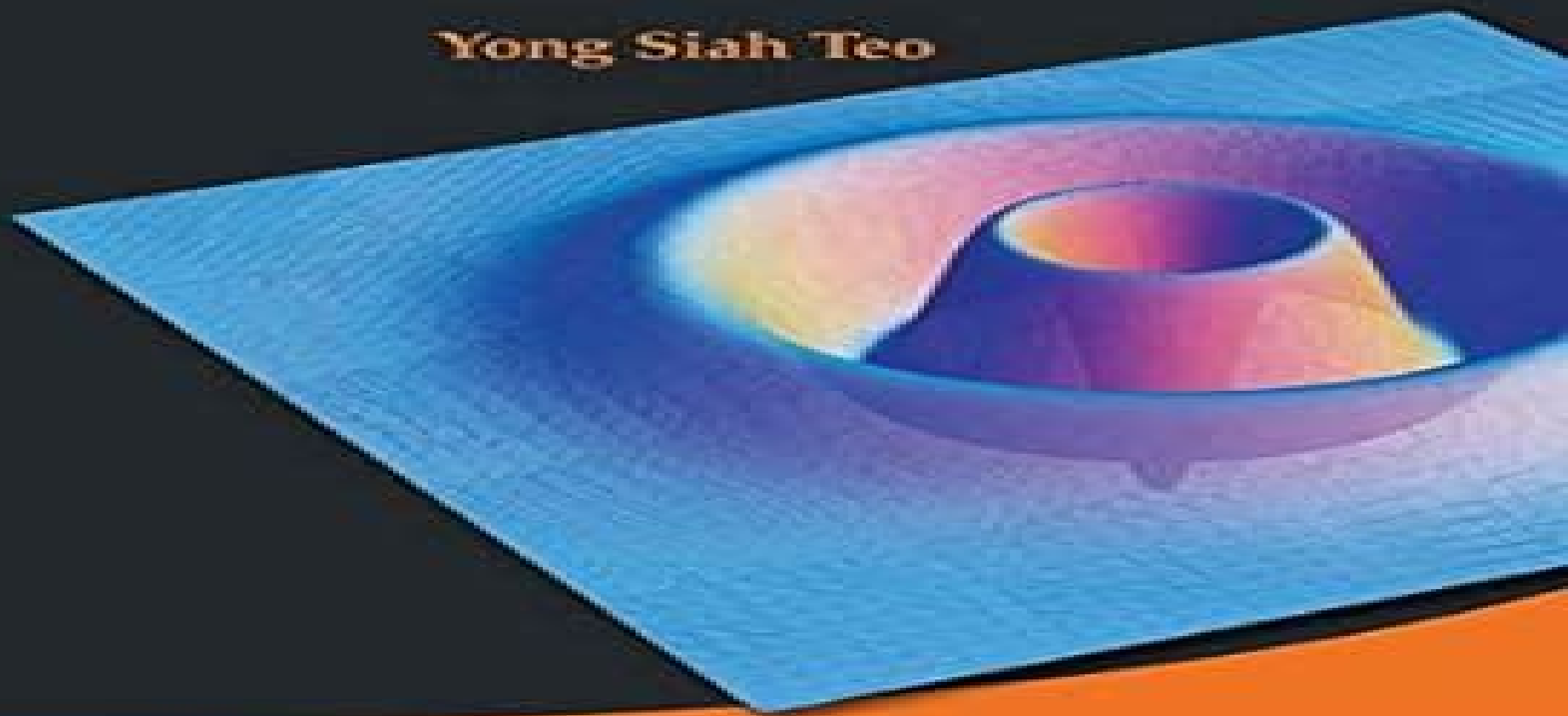


INTRODUCTION TO QUANTUM-STATE ESTIMATION

Yong Siah Teo



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Introduction To Quantum-state Estimation Yong Siah Teo, 2015-08-20 Quantum state estimation is an important field in quantum information theory that deals with the characterization of states of affairs for quantum sources This book begins with background formalism in estimation theory to establish the necessary prerequisites This basic understanding allows us to explore popular likelihood and entropy related estimation schemes that are suitable for an introductory survey on the subject Discussions on practical aspects of quantum state estimation ensue with emphasis on the evaluation of tomographic performances for estimation schemes experimental realizations of quantum measurements and detection of single mode multi photon sources Finally the concepts of phase space distribution functions which compatibly describe these multi photon sources are introduced to bridge the gap between discrete and continuous quantum degrees of freedom This book is intended to serve as an instructive and self contained medium for advanced undergraduate and postgraduate students to grasp the basics of quantum state estimation Any reader with a solid foundation in quantum mechanics linear algebra and calculus would be able to follow the book comfortably

Quantum State Estimation Matteo Paris, Jaroslav Rehacek, 2014-01-15 **Quantum State Estimation** Matteo Paris, Jaroslav Rehacek, 2004-08-11 This book is a comprehensive survey of most of the theoretical and experimental achievements in the field of quantum estimation of states and operations Albeit still quite young this field has already been recognized as a necessary tool for research in quantum optics and quantum information beyond being a fascinating subject in its own right since it touches upon the conceptual foundations of quantum mechanics The book consists of twelve extensive lectures that are essentially self contained and modular allowing combination of various chapters as a basis for advanced courses and seminars on theoretical or experimental aspects The last two chapters for instance form a self contained exposition on quantum discrimination problems The book will benefit graduate students and newcomers to the field as a high level but accessible textbook lecturers in search for advanced course material and researchers wishing to consult a modern and authoritative source of reference

Lectures on Quantum State Estimation BERTHOLD-GEORG. ENGLERT, 2025-11-29 This will be the 7th book in the author's Lectures on book series and the first aimed at graduate level readers two additional graduate texts are in preparation Primarily intended for physics graduate students the book is accessible to advanced undergraduates and will appeal to students with a background in statistics and a keen interest in quantum physics By the end of this book readers will be well prepared for working on research projects that require the drawing of inference from the noisy data collected in quantum experiments as epitomized by quantum state estimation The book begins with chapters on the basics of estimation theory and the basics of quantum theory This includes in particular the roles played by the frequentist methods of statistics which are crucial when planning an experiment and the Bayesian methods which are the tools for drawing inference from the actual data gathered A central concept is that of optimal error regions that supplement the point estimators best guesses

with the analogs of error bars in the high dimensional parameter space there is in particular the plausible region which comprises all point estimators supported by the data Practical applications require the evaluation of high dimensional integrals with the aid of Monte Carlo integration For that one needs to draw samples of quantum states from the relevant distributions namely the priors and posteriors of Bayesian methodology The book discusses the algorithms well suited for this kind of sampling which is central to the processing of real life data The book illustrates all concepts with pertinent examples and offers numerous exercises which the readers can practice and perfect their skills with The presentation is detailed and does not skip technical steps which makes the book particularly valuable for self studying readers and as textbook adopted by lecturers teaching courses on this or related topics While the book is based on lecture notes developed for the author s courses on quantum state estimation at NUS and BIT this book also offers a comprehensive account of the concepts and methods developed in the author s group at CQT and presents this material in textbook form for the first time Quantum Entanglement and Quantum State Estimation Antonio Acín dal Maschio, José Ignacio Latorre, 2001 Differential Geometrical Aspects of Quantum State Estimation and Relative Entropy Hiroshi Nagoaka, 1994 **Adaptive Rank Quantum State Estimation** Aron Pasieka, 2014 **Mathematical Structures in Quantum Information Theory: Tensors, Correlations and State Estimation** Jonathan Steinberg, 2023 *Quantum State Estimation when Qubits are Lost*, 2017 We present an approach to Bayesian mean estimation of quantum states using hyperspherical parametrization and an experiment specific likelihood which allows utilization of all available data even when qubits are lost With this method we report the first closed form Bayesian mean and maximum likelihood estimates for the ideal single qubit Due to computational constraints we utilize numerical sampling to determine the Bayesian mean estimate for a photonic two qubit experiment in which our novel analysis reduces burdens associated with experimental asymmetries and inefficiencies This method can be applied to quantum states of any dimension and experimental complexity **Quantum Theory of the Solid State** Lev Kantorovich, 2004-05-31 Quantum Physics of the Solid State an Introduction Draft foreword 26 09 03 If only this book had been available when I was starting out in science It would have saved me countless hours of struggle in trying to apply the general ideas of the standard solid state text books to solve real problems The fact is that most of the texts stop at the point where the real difficulties begin The great merit of this book is that it describes in an honest and detailed way what one really has to do in order to understand the multifarious properties of solids in terms of the fundamental physical theory of quantum mechanics University students of the physical sciences are taught about the fundamental theories and know that quantum mechanics together with relativity is our basis for understanding the physical world But the practical difficulties of using quantum mechanics to do anything useful are usually not very well explained The truth is that the application of quantum theory to achieve our present detailed understanding of solids has required the development of a large array of mathematical techniques This is closely analogous to the challenge faced long ago by theoretical astronomers in trying to

apply Newton's equations of motion to the heavens they too had to develop a battery of theoretical and computational techniques to do calculations that could be compared with observation Finite Sample Analysis in Quantum Estimation

Takanori Sugiyama, 2016-08-27 In this thesis the author explains the background of problems in quantum estimation the necessary conditions required for estimation precision benchmarks that are applicable and meaningful for evaluating data in quantum information experiments and provides examples of such benchmarks The author develops mathematical methods in quantum estimation theory and analyzes the benchmarks in tests of Bell type correlation and quantum tomography with those methods Above all a set of explicit formulae for evaluating the estimation precision in quantum tomography with finite data sets is derived in contrast to the standard quantum estimation theory which can deal only with infinite samples This is the first result directly applicable to the evaluation of estimation errors in quantum tomography experiments allowing experimentalists to guarantee estimation precision and verify quantitatively that their preparation is reliable

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state and to quantify distinguishability I demonstrate its use by applying it to the measurement of the quantum polarization state of two and three photon systems State characterization is optimal when no redundant information is collected about the state of the system I present the results of the first optimal characterization of the polarization state of a two photon system I show an improved estimation power over the previous state of the art I also show how the optimal measurements lead to a new description of the quantum state in terms of a discrete Wigner function It is often desirable to describe the quantum state of a system in terms of properties that are not themselves quantum mechanical observables This usually requires a full characterization of the state followed by a calculation of the properties from the parameters characterizing the state I apply a technique that allows such properties to be determined directly without a full characterization of the state This allows one such property the purity to be determined in a single measurement regardless of the size of the system while the conventional method of determining purity requires a number of measurements that scales exponentially with the system size

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Table of Contents Nice Introduction Quantum State Estimation Yong Siah

1. Understanding the eBook Nice Introduction Quantum State Estimation Yong Siah
 - The Rise of Digital Reading Nice Introduction Quantum State Estimation Yong Siah
 - Advantages of eBooks Over Traditional Books
2. Identifying Nice Introduction Quantum State Estimation Yong Siah
 - 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 Nice Introduction Quantum State Estimation Yong Siah
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nice Introduction Quantum State Estimation Yong Siah
 - Personalized Recommendations
 - Nice Introduction Quantum State Estimation Yong Siah User Reviews and Ratings

- Nice Introduction Quantum State Estimation Yong Siah and Bestseller Lists
- 5. Accessing Nice Introduction Quantum State Estimation Yong Siah Free and Paid eBooks
 - Nice Introduction Quantum State Estimation Yong Siah Public Domain eBooks
 - Nice Introduction Quantum State Estimation Yong Siah eBook Subscription Services
 - Nice Introduction Quantum State Estimation Yong Siah Budget-Friendly Options
- 6. Navigating Nice Introduction Quantum State Estimation Yong Siah eBook Formats
 - ePub, PDF, MOBI, and More
 - Nice Introduction Quantum State Estimation Yong Siah Compatibility with Devices
 - Nice Introduction Quantum State Estimation Yong Siah Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nice Introduction Quantum State Estimation Yong Siah
 - Highlighting and Note-Taking Nice Introduction Quantum State Estimation Yong Siah
 - Interactive Elements Nice Introduction Quantum State Estimation Yong Siah
- 8. Staying Engaged with Nice Introduction Quantum State Estimation Yong Siah
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nice Introduction Quantum State Estimation Yong Siah
- 9. Balancing eBooks and Physical Books Nice Introduction Quantum State Estimation Yong Siah
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nice Introduction Quantum State Estimation Yong Siah
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nice Introduction Quantum State Estimation Yong Siah
 - Setting Reading Goals Nice Introduction Quantum State Estimation Yong Siah
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nice Introduction Quantum State Estimation Yong Siah
 - Fact-Checking eBook Content of Nice Introduction Quantum State Estimation Yong Siah
 - 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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