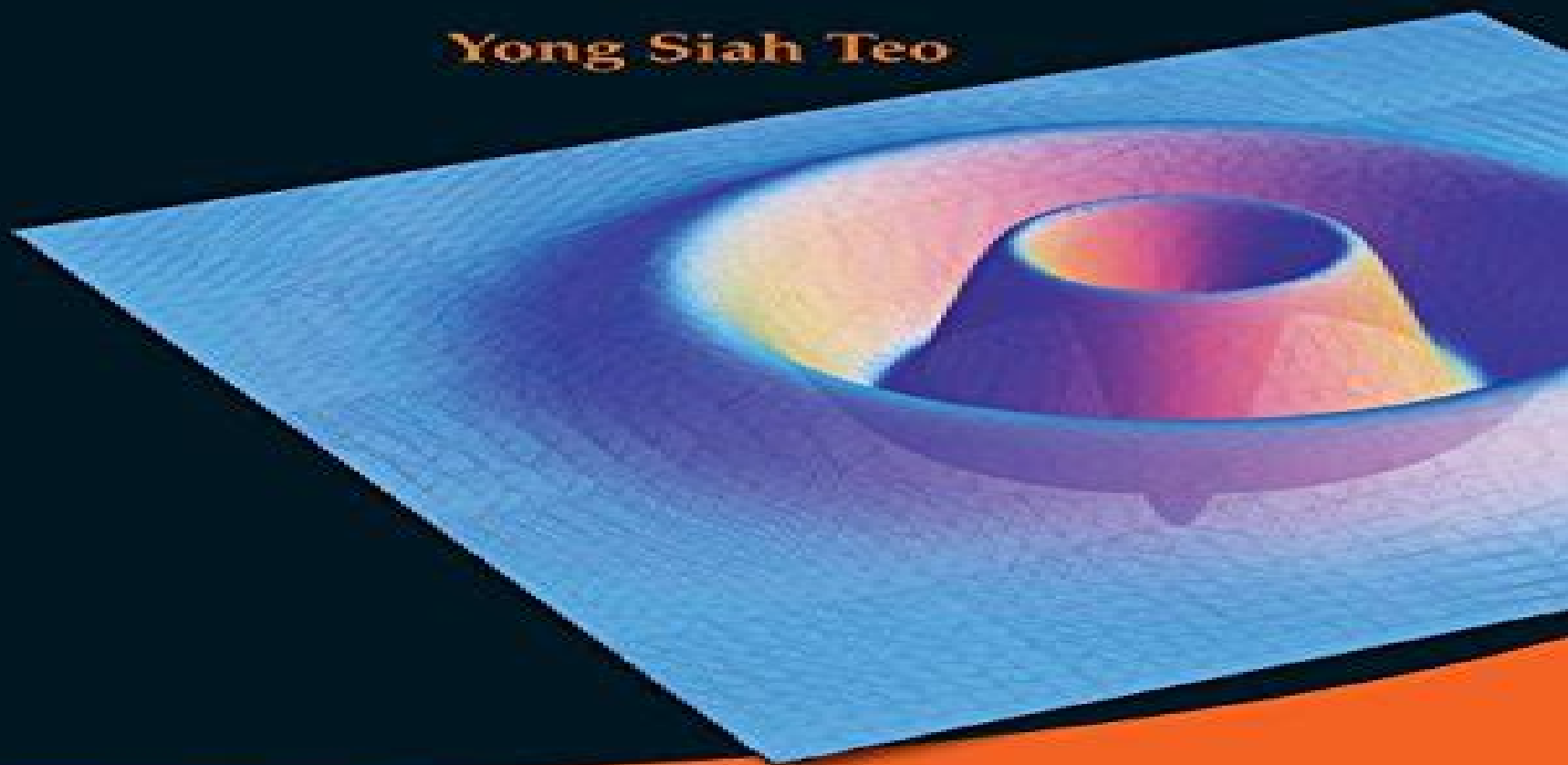


INTRODUCTION TO QUANTUM-STATE ESTIMATION

Yong Siah Teo



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**Antonio Acín dal Maschio, José Ignacio
Latorre**



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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, 2026 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 Pasiaka, 2014 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 **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

Mathematical Structures in Quantum Information Theory: Tensors, Correlations and State Estimation Jonathan Steinberg,2023

Characterization of Quantum States of Light Rob Adamson,2009 I present a series of experimental and theoretical advances in the field of quantum state estimation Techniques for measuring the quantum state of light that were originally developed for distinguishable photons fail when the particles are indistinguishable I develop new methods for handling indistinguishability in quantum state estimation The technique I present provides the first complete description of states of experimentally indistinguishable photons It allows me to derive the number of parameters needed to describe an arbitrary 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

Characterization of Quantum States of Light Rob Adamson,2009 I present a series of experimental and theoretical advances in the field of quantum state estimation

Techniques for measuring the quantum state of light that were originally developed for distinguishable photons fail when the particles are indistinguishable I develop new methods for handling indistinguishability in quantum state estimation The technique I present provides the first complete description of states of experimentally indistinguishable photons It allows me to derive the number of parameters needed to describe an arbitrary 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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