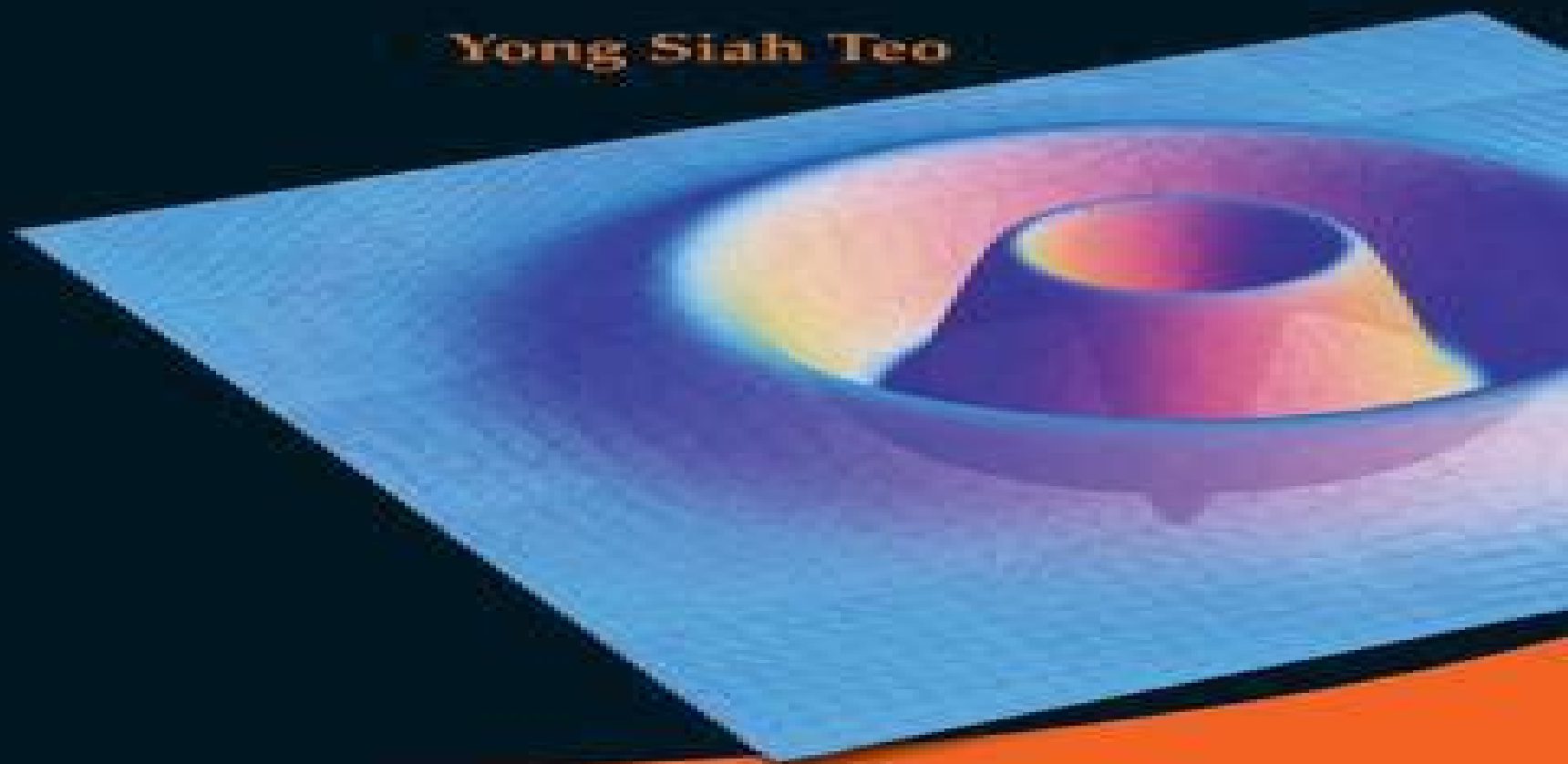


INTRODUCTION TO QUANTUM-STATE ESTIMATION

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, 2010-12-06 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

Quantum State Estimation Matteo Paris, Jaroslav Rehacek, 2014-01-15 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

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