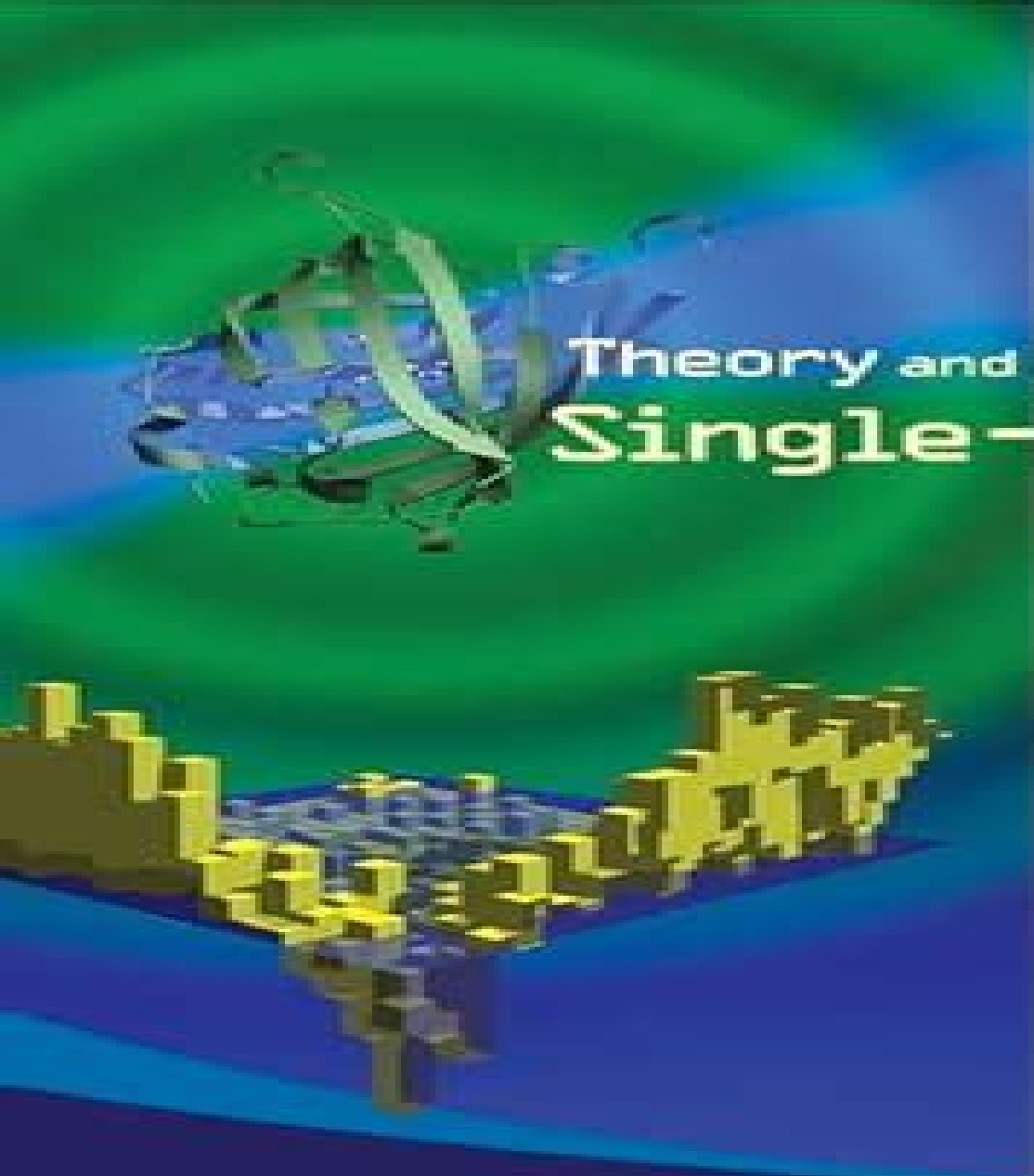
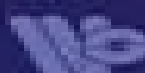




Theory and Evaluation of Single-Molecule Signals

Editors

Eli Barkai
Frank Brown
Michel Orrit
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Theory And Evaluation Of Single Molecule Signals

Arthur James Wells



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Theory and Evaluation of Single-molecule Signals Eli Barkai, 2008 This book reviews recently developed theoretical and numerical approaches to deal with optical and mechanical signals from individual molecules The character of data generated by single molecules and more generally by single nano objects qualitatively differs from those obtained in conventional experiments on large ensembles of molecules Fluctuations randomness and irreproducibility are central to single molecule measurements and the specific methods required to extract reliable and statistically relevant information from them are presented here With contributions mainly from participants of the Theory Modeling and Evaluation of Single Molecule Measurements workshop held in Leiden the Netherlands on April 16 20 2007 this book is an authoritative compendium on the subject

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Advances in Chemical Physics, 1958

Bridging the Gap Between Protein Structure and Dynamics Jeffrey Alan Hanson, 2009

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Nanotechnology Rudolf Rigler, H. Vogel, 2007-12-07 The investigation of molecules as individuals has grown rapidly in recent years and in the process has uncovered molecular properties not normally accessible by ensemble experiments In particular the direct characterization of biologically important molecules such as enzymes molecular motors or receptors and entire signaling complexes in action for example in a live biological cell yielded unexpected insights Common approaches for studying single molecules include the electrical detection of ion channels in membranes the measurement of the dynamics of biochemical reactions between individual molecules the imaging of individual molecules by scanning probe techniques or by fluorescence correlation spectroscopy and the direct monitoring of single molecules by optical microscopies to mention a few The application of these techniques in physics chemistry and biology has opened new areas of nanotechnology This book provides a representative selection of recent developments in the rapidly evolving field of single molecule techniques of importance in life sciences and will have future impact on the quantitative description of biological processes The editors of this book hope that the chapters written by leading scientists in the field will attract students and scientists from different disciplines provide them with an authentic insight into this young field of research allow them to evaluate experimental methods and results and thereby give them support for their own research Lausanne Rudolf Rigler September 2007 Horst Vogel v Contents 1 Nanophotonics and Single Molecules 1 W E Moerner P James Schuck David P **Frontiers of**

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