Contents

Preface vii
List of Participants ix
Outline of Quantum Mechanics
  WILLIAM G. FARIS 1
Inequalities for Schrödinger Operators and Applications to the Stability of Matter Problem
  ROBERT SEIRINGER 53
Trace Inequalities and Quantum Entropy: An Introductory Course
  ERIC CARLEN 73
Lieb-Robinson Bounds in Quantum Many-Body Physics
  BRUNO NACHTERGAEL and ROBERT SIMS 141
Remarks on the Additivity Conjectures for Quantum Channels
  CHRISTOPHER KING 177
On the Static and Dynamical Collapse of White Dwarfs
  CHRISTIAN HAİNZL 189