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	Quantum Films: A Quantum Simulation Study ; Can Incommensuration Stabilize a Superfluid Phase of Para-Hydrogen? ; Analysis of the Interatomic Potential of the Helium Systems ; Nuclear Physics and QCD Quantum Phase Transitions in Mesoscopic Systems Nuclear-Structure Theory in the Search for New Fundamental Physics ; Matter at Extreme Density and its Role in Neutron Stars and Supernova ; New Approaches to Strong Coupling Lattice QCD ; Nuclear Interactions from the Renormalization Group Random Interactions and Ground State Spin of Finite Fermi Systems
Sommario/riassunto	Quantum many-body theory has greatly expanded its scope and depth over the past few years, treating more deeply long-standing issues like phase transitions and strongly-correlated systems, and simultaneously expanding into new areas such as cold atom physics and quantum information. This collection of contributions highlights recent advances in all these areas by leaders in their respective fields. Also included are some historic perspectives by L P Gor'kov and S T Belyaev, Feenberg Medal Recipients at this conference, and Nobel Laureate P W Anderson gives his unique outlook on the future of