Record Nr. UNINA9910454347903321 150 years of quantum many-body theory [[electronic resource]]: a **Titolo** festschrift in honour of the 65th birthdays of John W. Clark, Alpo J. Kallio, Manfred L. Rising, Sergio Rosati: UMIST, Manchester, UK, July 10-14, 2000 / / editors, Raymond F. Bishop, Klaus A. Gernoth, Niels R. Walet Singapore;; River Edge, NJ,: World Scientific, c2001 Pubbl/distr/stampa **ISBN** 1-281-95133-1 9786611951337 981-279-976-1 Descrizione fisica 1 online resource (359 p.) Collana Series on advances in quantum many-body theory:: v. 5 Altri autori (Persone) BishopR. F (Raymond F.) GernothKlaus A WaletNiels R 530.144 Disciplina Soggetti Many-body problem **Physics** Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto CONTENTS; Series Editorial Board and Other Committees; Foreword by the Editors; Scientific CVs of the Honorees; John Walter Clark; Alpo J. Kallio; Manfred Ristig; Sergio Rosati; A Historical Perspective; The Music of the QMBT Quartet; Formal Aspects of Many-Body Theory; Diagrams are Theoretical Physicist's Best Friends; Fourth Order Algorithms for Solving Diverse Many-Body Problems; Relativistic Quantum Dynamics of Many-Body Systems; Elastic N-body to N-body Scattering in the Hyperspherical Representation; A Generic Way to Look at Many-Body Theory; A Variational Coupled-Cluster Theory Nuclear and Subnuclear Physics The Nuclear Equation of State and Neutron Star Structure: To Dress or Not to Dress: Fermi Hypernetted

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Sommario/riassunto

In July 2000 a conference was held to honour the 65th birthdays of four of the leading international figures in the field of quantum many-body theory. The joint research careers of John Clark, Alpo Kallio, Manfred Ristig and Sergio Rosati total some 150 years, and this festschrift celebrated their achievements. These cover a remarkably wide spectrum. The topics in this book reflect that diversity, ranging from formal aspects to real systems, including nuclear and subnuclear systems, quantum fluids and solids, quantum spin systems and strongly correlated electron systems. The book collects more