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Altri autori (Persone)	IachelloF VitturiAndrea CastenR
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Nota di contenuto	CONTENTS; Preface; Symmetry: the search for order in nature; 1 Symmetry; 2 Symmetry in Physics; Additional quantum numbers dynamical symmetries and degeneracies; Partial dynamical symmetry as an intermediate symmetry structure; 1 Introduction; 2 SU(3) PDS (type I) 3 O(6) PDS (type I) 4 O(5) PDS (type II) ; 5 O(6) PDS (type II); 6 O(6) PDS (type III); 7 Summary and Conclusions; Vector coherent state theory: a powerful tool for solving algebraic problems in physics; 1 Introduction; 2 Scalar coherent state presentations 3 Vector coherent state representations 4 VCS representations of su(3) in an su(2) basis; 5 Representation of su(3) in an so(3) basis 6 Representations of so(5) in an so(3) basis; 7 Discussion; Symmetries in strongly deformed nuclei; 1 Introduction 2 Model space and interaction 3 Representative results; 4 Conclusions; Shape coexistence and its symmetries; 1 Introduction: the early work; 2 Quadrupole force dominance; 3 Shape coexistence and its symmetries 1 Introduction 2 Many-Body Hamiltonians; 3 Connection to Gaudin

Algebras; Some new perspectives on pairing in nuclei; 1 Introduction; 2 Richardson's solution of the Pairing Mode An electrostatic analogy for Pairing Models
4 A new pictorial representation of nuclear superconductivity

Sommario/riassunto

The Highly Specialized Seminar on "Symmetries in Nuclear Structure", held in Erice, Italy, in March 2003, celebrated the career and the remarkable achievements of Francesco Iachello, on the occasion of his 60th birthday. Since the development of the interacting boson model in the early 1970's, the ideas of Iachello have provided a variety of frameworks for understanding collective behaviour in nuclear structure, founded on the concepts of dynamical symmetries and spectrum-generating algebras. The original ideas, which were developed for the description of atomic nuclei, have now been successful...
