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excitation; 5. GT and SD excitations as quantitative constraints for the tensor force; 6. Summary; References; Favorable Hot Fusion Reaction for Synthesis of New Superheavy Nuclide 272Ds Z.H. Liu and J.D. Bao; 1. Introduction; 2. Model; 2.1. Capture; 2.2. Diffusion over the inner barrier; 2.3. Survival from fission competition

3. Results and discussions4. Summary; Acknowledgements; References; Ground State Occupation Probabilities of Valence Nucleon Pairs in Even-Even Nuclei in the Nilsson Mean-Field Plus the Nearest-Orbit Pairing Model L. Bao, et al.; 1. Introduction; 2. The occupation probabilities of valence nucleon pairs with definite angular momentum quantum number; 3. Results; 4. Summary; Acknowledgements; References; Spontaneous Fission Half-Lives for Superheavy Nuclei Based on a Generalized Liquid-Drop Model X.J. Bao, and H.F. Zhang; 1. Introduction; 2. Results and Discussion; 3. Summary; Acknowledgments

ReferencesConstraining the Nuclear Equation of State Via Nuclear Structure Observables L.G. Cao, H. Sagawa and G. Colo; 1. Introduction; 2. ISGMR Results and Discussion; 3. PDR Results and Discussion; 4. Summary; Acknowledgments; References; Chiral Unitary Study of the pp $pLK+$ and pp $pOK+$ Processes H.X. Chen, J.J. Xie and E. Oset; 1. Introduction; 2. Formalism and ingredients; 3. Numerical results and Discussion; Acknowledgments; References; Recent Progress on the Determination of the Symmetry Energy L.W. Chen; 1. Introduction; 2. The symmetry energy

3. The symmetry energy around the saturation density3.1. Nuclear reactions; 3.1.1. Heavy ion collisions; 3.1.2. Nucleon optical potential; 3.2. Nuclear structures; 3.2.1. Nuclear mass; 3.2.2. Neutron skin thickness; 3.2.3. Nuclear isobaric analog state energies; 3.2.4. Pygmy dipole resonance; 3.3. The properties of neutron stars; 3.4. Discussions; 4. The symmetry energy at supra-saturation densities; 5. Summary; Acknowledgments; References; Reflection Asymmetric Shell Model Description for the Parity Doublets in ^{237}U and ^{239}Pu Q.M. Chen, Z.C. Gao and Y.S. Chen; 1. Introduction

2. Reflection asymmetric shell model3. Results of calculation; 4. Summary; References; The Heavy Shell Model and Its Application J.W. Cui et al.; 1. Introduction; 2. Heavy shell model; 3. Results and Discussions; 4. Summary; Acknowledgments; References; Configuration Features of Observed Long Bands in ^{125}Xe B.G. Dong, H.L. Ma and Y.L. Yan; 1. Introduction; 2. Results and Discussions; 3. Conclusion; Acknowledgments; References; Spectroscopy of A~190 Ir-Pt-Au Nuclei Near Stability from Complete and Incomplete Fusion Reaction Y.D. Fang et al.; 1. Introduction; 2. Experiment

3. Result and discussion

Sommario/riassunto

This volume is a collection of the contributions to the 14th National Conference on Nuclear Structure in China (NSC2012). It provides an important updated resource in the nuclear physics literature for researchers and graduate students studying nuclear structure and related topics. Recent progress made in the study of nuclear spectroscopy of high-spin states, nuclear mass and half-life, nuclear astrophysics, super-heavy nuclei, unstable nuclei, density functional theory, neutron star and symmetry energy, nuclear matter, and nuclear shell model are covered. Sample Chapter(s). Tensor Effects on