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Nota di contenuto	CONTENTS; Preface; Photos of the Symposium; Competition between Fusion-Fission and Quasifission in the Reactions with Heavy Ions M. G. Itkis et al.; 1. Introduction; 2. CN-Fission and QF in the Reactions Leading to the Hs Composite Systems; 3. Reactions with an ²³⁸ U Target; 4. Conclusions; Acknowledgments; References; Experiments on Superheavy Elements at the GSI SHIP S. Hofmann; 1. Introduction and Status of Experiments; 2. Continuation of SHE Experiments using ²⁴⁸ Cm Targets; 3. Conclusion and Outlook; References New Vistas of the Structure of Neutron-Rich Nuclei - Single Particle States and g-factors. A. V. Ramayya et al. 1. Introduction; 2. Experimental Method; 3. Single Particle States and g-Factors; 4. Octupole Correlations in ^{143,145} B and ¹⁴⁸ Ce; 5. Even Parity Bands of ^{108,110,112} Ru; Acknowledgments; References; Superheavies: Theoretical Incitements and Predictions V. I. Zagrebaev, A. V. Karpov, I. N. Mishustin and W. Greiner; 1. Motivation; 2. Nucleosynthesis by Neutron Capture; 3. Summary; References

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McLerran; 1. Quarkyonic Matter; 2. Chiral Symmetry Breaking and the Emergence of Happy Island; 3. Experimental Hints for Happy Island; 4. Summary; Acknowledgments; References; Signatures of the Strongly

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Expansion; 4. Computing the Relaxation Time from the Poles of G_R ; 5. The Role of the Analytical Structure of G_R (!); 6. Application: The Linearized Boltzmann Equation; 7. Conclusion; References; Production

of Heavy and Superheavy Nuclei in Explosive Processes I. N. Mishustin; Preface; 1. Introduction; 2. Statistical Description of Supernova Matter 3. Nuclear Composition of Supernova Matter

Sommario/riassunto

This book focus on recent advances in nuclear physics and bring together experimentalists and theorists. Topics covered include neutron rich and superheavy nuclei, supernova and r-process nuclei, nuclear symmetry energy and equation of state, neutron stars, FAIR and future Dubna research, other related areas.
