1. Evidence for Multiple Chiral Doublet Bands in ¹³³Ce

A. D. Ayangeakaa, U. Garg, M. D. Anthony, S. Frauendorf, J. T. Matta, B. K. Nayak, D.Patel, Q. B. Chen (陈启博), S. Q. Zhang (张双全), P. W. Zhao (赵鹏巍), B. Qi (亓斌), J. Meng (孟杰), R.V. F. Janssens, M. P. Carpenter, C. J. Chiara, F. G. Kondev, T. Lauritsen, D.Seweryniak, S. Zhu, S. S. Ghugre, and R. Palit Physical Review Letters 110 (2013) 172504

2. β -decay half-lives of neutron-rich nuclei and matter

flow in the r-process

Z. M. Niu, Y. F. Niu, H. Z. Liang, W. H. Long, T. Niksic, D. Vretenar, and J. Meng Physics Letters B 723 (2013) 172

3. Simultaneous quadrupole and octupole shape phase transitions in Thorium

Z. P. Li, B.Y. Song, J. M. Yao, D. Vretenar, and J. Meng Physics Letters B 726 (2013) 866

4. Virtual decuplet effects on octet baryon masses in covariant baryon chiral perturbation theory

X.-L. Ren, L. S. Geng, J. Meng, and H. Toki Physical Review D 87 (2013) 074001

5. Pseudospin symmetry in supersymmetric quantum mechanics: Schrodinger equations

H. Z. Liang (梁豪兆), S. H. Shen (申时行), P. W. Zhao (赵鹏巍), and J. Meng (孟杰) Physical Review C 87 (2013) 014334

6. Reexamining the temperature and neutron density conditions for r-process nucleosynthesis with augmented nuclear mass models

X. D. Xu (徐晓栋), B. Sun (孙保华), Z. M. Niu (牛中明), Z. Li (李竹), Y.-Z. Qian (钱永忠), and J. Meng (孟杰)

Physical Review C 87 (2013) 015805

7. Collective Hamiltonian for chiral modes

Q. B. Chen, S. Q. Zhang, P. W. Zhao, R. V. Jolos, and J. Meng Physical Review C 87 (2013) 024314

8. Spectroscopy of ¹⁵⁷Yb and structure evolutions in odd-A Yb isotopes

C. Xu, H. Hua, X. Q. Li, S. Q. Zhang, J. Meng, Z. H. Li, F. R. Xu, Y. Y. Cheng, C. He, J. J. Sun, Y. Shi, H. L. Liu, Z. Y. Li, L. H. Zhu, X. G. Wu, G. S. Li, C. Y. He, Y. Zheng, S. G. Zhou, S. Y. Wang, Y. L. Ye, D. X. Jiang, T. Zheng, J. L. Lou, L. Y. Ma, E. H. Wang, L. L. Wang, and B. Zhang

Physical Review C 87 (2013) 034325

9. Slater approximation for Coulomb exchange effects in nuclear covariant density functional theory

H.-Q. Gu (顾怀强), H. Z. Liang (梁豪兆), W. H. Long (龙文辉), N. V. Giai, and J. Meng (孟杰) Physical Review C 87 (2013) 041301(R)

10. Beyond relativistic mean-field studies of low-lying states in neutron-deficient krypton isotopes

Y. Fu, H. Mei, J. Xiang, Z. P. Li, J. M. Yao, and J. Meng Physical Review C 87 (2013) 054305

11. Rotational properties of the superheavy nucleus ²⁵⁶Rf and its neighboring even-even nuclei in a particle-number-conserving cranked shell model

Z.-H. Zhang (张振华), J. Meng (孟杰), E.-G. Zhao (赵恩广), and S.-G. Zhou (周善贵) Physical Review C 87 (2013) 054308

12. Feasibility of the finite-amplitude method in covariant density functional theory

H. Z. Liang (梁豪兆), T. Nakatsukasa (中务孝), Z. M. Niu (牛中明), and J. Meng (孟杰) Physical Review C 87 (2013) 054310

13. Nuclear superfluidity for antimagnetic rotation in ¹⁰⁵Cd and ¹⁰⁶Cd

Z.-H. Zhang (张振华), P.-W. Zhao (赵鹏巍), J. Meng (孟杰), J.-Y. Zeng (曾谨言), E.-G. Zhao (赵恩广), and S.-G. Zhou (周善贵)
Physical Review C 87 (2013) 054314

14. Pseudospin symmetry in supersymmetric quantum mechanics. II. Spin-orbit effects

S.H. Shen (申时行), H. Z. Liang (梁豪兆), P. W. Zhao (赵鹏巍), S. Q. Zhang (张双全), and J. Meng (孟杰)

Physical Review C 88 (2013) 024311

15. Pairing transitions in finite-temperature relativistic Hartree-Bogoliubov theory.

Y. F. Niu, Z. M. Niu, N. Paar, D. Vretenar, G. H. Wang, J. S. Bai, and J. Meng Physical Review C 88 (2013) 034308

16. Description of α -decay chains for 293,294 117 within covariant density functional theory.

W. Zhang, Z. P. Li, and S. Q. Zhang Physical Review C 88 (2013) 054324

17. Effect of pairing correlations on nuclear low-energy structure: BCS and general Bogoliubov transformation.

J. Xiang, Z. P. Li, J. M. Yao, W. H. Long, P. Ring, and J. Meng Physical Review C 88 (2013) 057301

18. Relativistic description of magnetic moments in nuclei with doubly closed shells plus or minus one nucleon.

J. Li, J. X. Wei, J. N. Hu, P. Ring, and J. Meng Physical Review C 88 (2013) 064307

19. Extending the nuclear chart by continuum: From oxygen to titanium

X. Y. Qu, Y. Chen, S. Q. Zhang, P. W. Zhao, I. J. Shin, Y. LIM, Y. KIM, and J. Meng Science China Physics, Mechanics & Astronomy 56 (2013) 2031

20. Quark Mass Dependence of the Ground-State Octet Baryons in Next-to-Next-to-Next-to-Leading Order Covariant Baryon Chiral Perturbation Theory

X. -L. Ren, L. S. Geng, J. M. Camalich, J. Meng, and H. Toki Few-Body Systems , 54 (2013) 1491

21. Progress on tilted axis cranking covariant density functional theory for nuclear magnetic and antimagnetic rotation

J. Meng (孟杰), J. Peng (彭靖), S. Q. Zhang (张双全), and P. W. Zhao (赵鹏巍) Frontiers of Physics in China 8 (2013) 55

22. Nuclear physics of the astrophysical rapid neutron-capture process

Z. Li (李竹), B.-H. Sun (孙保华), and J. Meng (孟杰) Physics 42 (2013) 505

23. Mass and lifetime of unstable nuclei in covariant density functional theory

J. Meng, Y. Chen, H. Z. Liang, Y. F. Niu, Z. M. Niu, L. S. Song, P. W. Zhao, Z. Li, B. Sun, X. D. Xu, Z. P. Li, J. M. Yao, W. H. Lon, T. Niksic, and D. Vretenar Physica Scripta T154 (2013) 014010

24. Energy density functional description of low-lying states in neutron-deficient Sn isotopes.

B. Y. Song, Z. P. Li, J. M. Yao, and J. Meng Physica Scripta T154 (2013) 014012

25. Covariant density functional theory for exotic nuclei near the neutron drip-line

Y. Chen, L. L. Li, Z. P. Li, H. Z. Liang, W. H. Long, P. Ring, N. V. Giai, J. M. Yao, S. Q. Zhang, Y. Zhang, P. W. Zhao, S. G. Zhou, and J. Meng Journal of Physics: Conference Series 413 (2013) 012005

26. Impact on the r-process from the nuclear mass and lifetime in covariant density functional theory

J. Meng, Y. Chen, Z. M. Niu, B. Sun, and P. W. Zhao Journal of Physics: Conference Series 445 (2013) 012016

27. Microscopic and self-consistent description for neutron halo in deformed nuclei.

L. L. Li, J. Meng, P. Ring, E.-G. Zhao, and S.-G. Zhou AIP Conference Proceedings 1529 (2013) 190

28. Magnetic moments for nucleus with double-closed core $\,\pm\,$ one nucleon

J. Li, J. X. Wei, J. N. Hu, and J. Meng AIP Conference Proceedings 1533 (2013) 140