#### 1. Observation of trielectronic recombination in Be-like Cl ions

M. Schnell, G. Gwinner, N. R. Badnell, M. E. Bannister, S. B?hm, J. Colgan, S. Kieslich, S. D. Loch, D. Mitnik, A. Müller, M. S. Pindzola, S. Schippers, D. Schwalm, W. Shi, A. Wolf and S.-G. Zhou,

PHYS REV LETT 91 (4): Art. No. 043001 JUL 25 2003

### 2. Spin symmetry in the antinucleon spectrum

Shan-Gui Zhou, Jie Meng, Peter Ring PHYS REV LETT 91 (26): Art. No. 262501 DEC 31 2003

### 3. Spherical Relativistic Hartree theory in a Woods-Saxon basis

Shan-Gui Zhou, Jie Meng, Peter Ring

PHYS REV C 68 (3): Art. No. 034323 SEP 2003

## 4. Description of chiral doublets in A similar to 130 nuclei and the possible chiral doublets in A similar to 100 nuclei

Peng J, Meng J, Zhang SQ

PHYS REV C 68 (4): Art. No. 044324 OCT 2003

# 5. alpha-decay chains of (288)(173)115 and (287)(172)115 in the relativistic mean field theory

Geng LS, Toki H, Meng J PHYS REV C 68 (6): Art. No. 061303 DEC 2003

#### 6. Giant, hyperon and deformed halos near the particle drip line

J. Meng, H.-F. Lü, S.Q. Zhang, and S.-G. Zhou Nucl. Phys. A 722, 366 (2003)

#### 7. Neutron halos in hyper-nuclei

H.-F. Lü, J. Meng, S.Q. Zhang, and S.-G. Zhou Euro. Phys. J. A17, 19-24 (2003)

## 8. Relativistic mean field theory for deformed nuclei with pairing correlations

Geng LS, Toki H, Sugimoto S, et al. PROG THEOR PHYS 110 (5): 921-936 NOV 2003

#### 9. Trielectronic recombination in Be-like ions

M. Schnell, M. E. Bannister, G. Gwinner, S. Kieslich, A. Müller, S. Schippers, D. Schwalm, A. Wolf and S.-G. Zhou,

## 10. Pseudospin symmetry in relativistic framework with harmonic oscillator potential and Woods-Saxon potential

T.S. Chen, H.-F. Lü, J. Meng, S.Q. Zhang, and S.-G. Zhou CHINESE PHYS LETT 20 (3): 358-361 MAR 2003

### 11. Solution of the Dirac equation with special Hulthen potentials

J.Y. Guo, J. Meng, F.X. Xu,

CHINESE PHYS LETT 20: 602-604 MAY 2003

### 12. Breaking of chiral symmetry in nuclei

J. Peng, J. Meng, S. Q. Zhang, Chin. Phys. Lett. 20 (8): Aug 2003

### 13. Shell correction at the saddle point for superheavy nucleus

Zhang W, Zhang SS, Zhang SQ, et al.

CHINESE PHYS LETT 20 (10): 1694-1697 OCT 2003

### 14. Effect of temperature on hyperon neutron star

Jia HY, Meng J, Zhao EG, et al.

HIGH ENERG PHYS NUC 27 (3): 200-205 MAR 2003 (in Chinese)

超子中子星性质的温度效应

贾焕玉,孟杰,赵恩广,李俊,桑建平

高能物理与核物理, 27 (3): 200-205 MAR 2003

#### 15. Pseudospin symmetry in real nuclei

T.S. Chen, H.-F. Lü, J. Meng, and S.-G. Zhou

HIGH ENERG PHYS NUC 27 (4): 324-327 APR 2003 (in Chinese)

原子核的赝自旋对称性近似

陈惕生, 吕洪凤, 孟杰, 周善贵

高能物理与核物理 27 (4): 324-327 APR 2003

## 16. Giant neutron halos in L-hypernuclei ALCa and ALLCa in the relativistic continuum Hartree-Bogoliubov theory

H.-F. Lü, J. Meng, and S.Q. Zhang

HIGH ENERG PHYS NUC 27 (5): 411-415 MAY 2003 (in Chinese)

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吕洪凤, 孟杰, 张双全

高能物理与核物理 27 (5): 411-415 MAY 2003

## 17. Method of the analytical continuation of the coupling constant in Schrodinger equations

Zhang SS, Meng J, Guo JY

18. Study of proton magic even-even isotopes and giant halos of Ca isotopes with relativistic continuum Hartree-Bogoliubov theory,

S.Q. Zhang, J. Meng, and S.-G. Zhou, SCI CHINA SER G 46 (6): 632-656 DEC 2003

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SCI CHINA SER G 46 (6): 632-656 DEC 2003

19. Structure and synthesis for superheavy element based on Relativistic Mean Field theory and research on nuclide beyond drip-line

MENG Jie, ZHANG Wei, and ZHANG Huanqiao Nuclear Physics Review 20:2(2003) 137-147.(in Chinese) 基于相对论平均场理论对超重核结构和合成以及滴线外核的研究 孟杰,张炜,张焕乔 原子核物理评论 20:2(2003) 137-147