

Chinese Physics C Subject Index to Vol. 47 (2023)

No. 1

LETTERS

- 011001 Thermodynamics of black holes in the quintessential phase space**
Guan-Ru Li, Sen Guo, Guo-Ping Li

PARTICLES AND FIELDS

- 013001 Two-photon physics at future electron-positron colliders**
I.R. Boyko, V.V. Bytev, A.S. Zhemchugov
- 013002 Search for the weak decay $\psi(3686) \rightarrow \Lambda_c^+ \bar{\Sigma}^- + c.c.$**
M. Ablikim *et al.* (BESIII Collaboration)
- 013101 Deep inelastic scattering with proton target in the presence of gluon condensation using holography**
Sara Tahery, Xiaopeng Wang, Xurong Chen
- 013102 Investigating S -waves bound states composed of two pseudoscalar mesons**
Zi-Long Li, Xing-Yue Tan, Zhu-Feng Zhang, Zhen-Yang Wang, Xin-Heng Guo
- 013103 Insights into the nature of $X(3872)$ through B meson decays**
Zhi-Qing Zhang, Zhi-Lin Guan, Yan-Chao Zhao, Zi-Yu Zhang, Zhi-Jie Sun, Na Wang, Xiao-Dong Ren
- 013104 Deuteron electromagnetic form factors and tensor polarization observables in the framework of the hard-wall AdS/QCD model**
Narmin Huseynova, Shahin Mamedov, Jannat Samadov
- 013105 QCD sum rule study for hidden-strange pentaquarks**
Pengfei Yang, Wei Chen
- 013106 Three-quark potential at finite temperature and chemical potential**
Jia-Jie Jiang, Ya-Zhao Xiao, Jiajia Qin, Xiaohua Li, Xun Chen
- 013107 Smuon in the NMSSM confronted with the muon $g-2$ anomaly and SUSY searches**
Kun Wang, Jingya Zhu
- 013108 Search for Majoron at the COMET experiment**
Tianyu Xing, Chen Wu, Han Miao, Haibo Li, Weiguo Li, Ye Yuan, Yao Zhang
- 013109 Analysis of $P_{cs}(4338)$ and related pentaquark molecular states via QCD sum rules**
Xiu-Wu Wang, Zhi-Gang Wang
- 013110 Possibility of experimental study on nonleptonic B_c^* weak decays**
Yueling Yang, Liting Wang, Jinshu Huang, Qin Chang, Junfeng Sun
- 013111 Constraints of ξ -moments computed using QCD sum rules on piondistribution amplitude models**
Tao Zhong, Zhi-Hao Zhu, Hai-Bing Fu

NUCLEAR PHYSICS

- 014001 α -cluster decay from ^{24}Mg resonances produced in the $^{12}\text{C}(^{16}\text{O}, ^{24}\text{Mg})\alpha$ reaction**
Dong-Xi Wang, Yan-Lin Ye, Cheng-Jian Lin, Jia-Hao Chen, Kai Ma, Jia-Xing Han, Hui-Ming Jia, Lei Yang, Li-Sheng Yang, Zi-Yao Hu, Ying Chen, Wei-Liang Pu, Gen Li, Zhi-Wei Tan, Hong-Yu Zhu, Tian-Peng Luo, Shan-Hao Zhong, Da-Hu Huang, Jian-Ling Lou, Xiao-Fei Yang, Qi-Te Li, Jin-Yan Xu, Zai-Hong Yang, Kang Wei
- 014101 Systematic calculations of cluster radioactivity half-lives in trans-lead nuclei**
Lin-Jing Qi, Dong-Meng Zhang, Song Luo, Xiao-Hua Li, Xi-Jun Wu, Chun-Tian Liang
- 014102 Production of neutron-deficient nuclei around $N = 126$ by proton-induced spallation**
Xin Lei, Erxi Xiao, Yujie Feng, Yingge Huang, Long Zhu, Jun Su
- 014103 Dependence of the tidal deformability of neutron stars on the nuclear equation of state**
Wen-Jie Xie, Jian-Ling Chen, Zi-Wei Ma, Jun-Hua Guo, Long Zhu
- 014104 Center of mass motion in bag model**
Chia-Wei Liu, Chao-Qiang Geng
- 014105 Binding energies of proton-rich nuclei determined from their mirror pairs**
Shuai Liu, Hao-Kang Jia, Teng-Fei Wang, Yi-Bin Qian
- 014106 Analysis of the interaction between the ϕ meson and nucleus**
Xiao-Yun Wang, Chen Dong, Qianjin Wang

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 015001 Flux variations of cosmic ray air showers detected by LHAASO-KM2A during a thunderstorm on June 10, 2021**
F. Aharonian *et al.* (LHAASO Collaboration)
- 015101 Deep learning method for testing the cosmic distance duality relation**
Li Tang, Hai-Nan Lin, Liang Liu
- 015102 Surface geometry and shadow of a Schwarzschild black hole with a halo**
Mingzhi Wang, Guanghai Guo, Songbai Chen, Jiliang Jing
- 015103 Weak gravity conjecture from conformal field theory: a challenge from hyperscaling violating and Kerr-Newman-AdS black holes**
Jafar Sadeghi, Mehdi Shokri, Mohammad Reza Alipour, Saeed Noori Gashti

- 015104 Compact stars admitting Finch-Skea symmetry in the presence of various matter fields**
Oleksii Sokoliuk, Alexander Baransky, P.K. Sahoo
- 015105 Primordial black hole from the running curvaton**
Lei-Hua Liu
- 015106 Gravitational decoupling for hairy black holes in asymptotic AdS spacetimes**
Chao-Ming Zhang, Ming Zhang, De-Cheng Zou
- 015107 Maximum mass of anisotropic charged strange quark stars in a higher dimensional approach ($D \geq 4$)**
A. Saha, K.B. Goswamiy, B. Dasz, P.K. Chattopadhyayx
- 015108 Chaos bound in Kerr-Newman-Taub-NUT black holes via circular motions**
Deyou Chen, Chuanhong Gao

No. 2

PARTICLES AND FIELDS

- 023001 Observations of the Cabibbo-Suppressed decays $\Lambda_c^+ \rightarrow n\pi^+\pi^0$, $n\pi^+\pi^-\pi^+$ and the Cabibbo-Favored decay $\Lambda_c^+ \rightarrow nK^-\pi^+\pi^+$**
M. Ablikim *et al.* (BESIII Collaboration)
- 023101 Decay constants of $B_c(nS)$ and $B_c^*(nS)$**
Chao Sun, Ru-Hui Ni, Muyang Chen
- 023102 Double-heavy tetraquarks with strangeness in the chiral quark model**
Xiaoyun Chen, Fu-Lai Wang, Yue Tan, Youchang Yang
- 023103 Relativistic correction to the dissociation temperature of B_c mesons in a hot medium**
Guangyu Li, Baoyi Chen, Yunpeng Liu
- 023104 Effects from hadronic structure of photon on $B \rightarrow \phi\gamma$ and $B_s \rightarrow (\rho^0, \omega)\gamma$ decays**
Yun Li, Zhi-Tian Zou, Yue-Long Shen, Ying Li
- 023105 Standard model effective field theory from on-shell amplitudes**
Teng Ma, Jing Shu, Ming-Lei Xiao
- 023106 Contributions to the nucleon form factors from bubble and tadpole diagrams**
Z. Y. Gao, P. Wang, M. Y. Yang
- 023107 Explaining the W boson mass anomaly and dark matter with a $U(1)$ dark sector**
Kai-Yu Zhang, Wan-Zhe Feng
- 023108 The cross-section for the $\gamma e^- \rightarrow Z e^- \rightarrow l^+ l^- e^-$ scattering at the LHeC**
Bui Thi Ha Giang
- 023109 Search for charm-quark production via dimuons in neutrino telescopes**
ChuanLe Sun, Fuyudi Zhang, Fan Hu, Donglian Xu, Jun Gao

NUCLEAR PHYSICS

- 024001 Cumulative fission yield measurements with 14.7 MeV neutrons on ^{238}U**
Xianlin Yang, Changlin Lan, Yangbo Nie, Liyang Jiang, Yijia Qiu, Yujie Ge, Hongtao Chen, Kai Zhang, Yuting Wei, Jiahao Wang, Gong Jiang, Xichao Ruan, Yi Yang
- 024002 Cross-sections of the $^{238}\text{U}(n, \gamma)^{239}\text{U}$ reaction in the 3.0–7.0 MeV energy region measured by relative activation method**
Chun Wen, Zheng Han, Xiao-Bing Luo
- 024101 Proposal for a nuclear light source**
E. V. Tkalya, P. V. Borisyuk, M. S. Domashenko, Yu. Yu. Lebedinskii
- 024102 Neutron skin thickness of ^{90}Zr and symmetry energy constrained by charge exchange spin-dipole excitations**
Shi-Hui Cheng, Jing Wen, Li-Gang Cao, Feng-Shou Zhang
- 024103 Universal scaling of kinetic freeze-out parameters across different collision systems at LHC energies**
Lian Liu, Zhong-Bao Yin, Liang Zheng
- 024104 Role of a high ground-state centrifugal barrier in the breakup of the ^{31}Ne nucleus**
B. Mukeru
- 024105 Signals of α clusters in $^{16}\text{O}+^{16}\text{O}$ collisions at the LHC from relativistic hydrodynamic simulations**
Chi Ding, Long-Gang Pang, Song Zhang, Yu-Gang Ma
- 024106 Effects of the formation time of parton shower on jet quenching in heavy-ion collisions**
Mengxue Zhang, Yang He, Shanshan Cao, Li Yi
- 024107 Interactions between heavy quarks and tilted QGP fireballs in 200 A GeV Au+Au collisions**
Ze-Fang Jiang, Shanshan Cao, Wen-Jing Xing, Xiaowen Li, Ben-Wei Zhang
- 024108 Strangeness $S = -2$ baryon-baryon interactions and femtoscopic correlation functions in covariant chiral effective field theory**
Zhi-Wei Liu, Kai-Wen Li, Li-Sheng Geng

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 025101 $f(\vec{R}, L(X))$ -gravity in the context of dark energy with power law expansion and energy conditions**
Goutam Manna, Arijit Panda, Aninda Karmakar, Saibal Ray, Md. Rabiul Islam
- 025102 Weak deflection angle and shadow cast by the charged-Kiselev black hole with cloud of strings in plasma**
Farruh Atamurotov, Ibrar Hussain, Ghulam Mustafa, Ali Övgün

- 025103 Singularities of regular black holes and the monodromy method for asymptotic quasinormal modes**
Chen Lan, Yi-Fan Wang
- 025104 Black hole shadow in $f(R)$ gravity with nonlinear electrodynamics**
Jiaojiao Sun, Yunqi Liu, Wei-Liang Qian, Songbai Chen, Ruihong Yue
- 025105 Effect of nonlinear electrodynamics on shadows of slowly rotating black holes**
Jiuyang Tang, Yunqi Liu, Wei-Liang Qian, Ruihong Yue

No. 3

PARTICLES AND FIELDS

- 033001 Search for hidden-charm tetraquark with strangeness in $e^+e^- \rightarrow K^+ D_s^{*-} D^{*0} + c.c.$**
M. Ablikim *et al.* (BESIII Collaboration)
- 033101 What can we learn from the total width of the Higgs boson?**
Qing-Hong Cao, Hao-Lin Li, Ling-Xiao Xu, Jiang-Hao Yu
- 033102 Linking $R_{K^{(*)}}$ anomalies to Hubble tension via a single right-handed neutrino**
Wen-Feng Duan, Shao-Ping Li, Xin-Qiang Li, Ya-Dong Yang
- 033103 Next-to-leading-order QCD corrections to gluon fragmentation into $^1S_0^{(1,8)}$ quarkonia**
Feng Feng, Yu Jia
- 033104 Explanation of $Y(4630)$ as a hadronic resonant state**
Xiao-Hui Mei, Zhuo Yu, Mao Song, Jian-You Guo, Gang Li, Xuan Luo
- 033105 Static properties and semileptonic transitions of lowest-lying double heavy baryons**
Zahra Ghalehovi, Masoumeh Moazzen Sorkhi
- 033106 Exploring HVV amplitudes with CP violation using decomposition and the on-shell scattering amplitude method**
Ke-Yao Feng, Xia Wan, You-Kai Wang, Chao Wu
- 033107 Chiral symmetry restoration and properties of Goldstone bosons at finite temperature**
Yin-Zhen Xu, Si-Xue Qin, Hong-Shi Zong

NUCLEAR PHYSICS

- 034001 New cross-section measurements for the $(n, 2n)$, (n, p) , and (n, α) reactions on bromine in the 14 MeV region with detailed uncertainty quantification**
Long He, Junhua Luo, Li Jiang
- 034002 14.77 MeV neutron-induced nuclear reaction cross sections for zinc, yttrium, and molybdenum targets**
T.S. Ganesapandy, G.T. Bholane, S.H. Patil, S.S. Dahiwale, V.N. Bhoraskar, S.D. Dhole
- 034003 Investigating the fission dynamics of the following neutron shell closed nuclei within a stochastic dynamical approach: ^{210}Po , ^{212}Rn , and ^{213}Fr**
Divya Arora, P. Sugathan, A. Chatterjee
- 034101 Machine learning phase transitions of the three-dimensional Ising universality class**
Xiaobing Li, Ranran Guo, Yu Zhou, Kangning Liu, Jia Zhao, Fen Long, Yuanfang Wu, Zhiming Li
- 034102 Deuteron under strong magnetic fields: Skyrme model study**
Yan-jun Chen, Jiang Wei
- 034103 Renormalization of one-pion exchange in higher partial waves in chiral effective field theory for antinucleon-nucleon system**
Daren Zhou
- 034104 Hydrodynamic simulations of directed flow for light hadrons in Au+Au and isobar collisions at $\sqrt{s_{NN}} = 200$ GeV**
Jing Jing, Ze-Fang Jiang, C. B. Yang, Ben-Wei Zhang
- 034105 Isoscalar monopole strength in ^{100}Mo : an indicator for static triaxial deformation in the ground state**
Yue Shi, P. D. Stevenson
- 034106 Axial chiral vortical effect in a sphere with finite size effect**
Shu-Yun Yang, Ren-Hong Fang, De-Fu Hou, Hai-Cang Ren
- 034107 Impact of the new $^{12}\text{C}+^{12}\text{C}$ reaction rate on presupernova nucleosynthesis**
Wenyu Xin, Ken'ichi Nomoto, Gang Zhao, Wenbo Wu

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 035101 Holographic dark energy from acceleration of particle horizon**
H. R. Fazlollahi
- 035102 Fractional phase transitions of RN-AdS black holes at their Davies points**
Li-Hua Wang, Yun He, Meng-Sen Ma
- 035103 Using simulated Tianqin gravitational wave data and electromagnetic wave data to study the coincidence problem and Hubble tension problem**
Jia-Wei Zhang, Jing-Wang Diao, Yu Pan, Ming-Yue Chen, Jin Li
- 035104 Hidden conformal symmetry and pair production near the cosmological horizon in Kerr-Newman-Taub-NUT-de Sitter spacetime**
Haryanto M. Siahaan
- 035105 Charged Taub-NUT-de Sitter spacetime in DGP braneworld and its thermodynamics**
Haryanto M. Siahaan
- 035106 Quantum effects on the black hole shadow and deflection angle in the presence of plasma**
Farruh Atamurotov, Mubasher Jamil, Kimet Jusufi

- 035107 Studies on modified power law inflation**
Prasenjit Paul, Rikpratik Sengupta, Saibal Ray
- 035108 Charged AdS black holes with finite electrodynamics in 4D Einstein-Gauss-Bonnet gravity**
Kimet Jusufi
- 035109 Relativistic polytropic models of charged anisotropic compact objects**
H. Nazar, M. Azam, G. Abbas, Riaz Ahmed, R. Naeem

No. 4

LETTERS

- 041001 Sequential single pion production explaining the dibaryon " $d^*(2380)$ " peak**
R. Molina, Natsumi Ikeno, Eulogio Oset
- 041002 Binding energy produced within the framework of the accretion of millisecond pulsars**
Ali Taani

PARTICLES AND FIELDS

- 043001 Observation of $e^+e^- \rightarrow pp\bar{p}\pi^- + c.c.$**
M. Ablikim *et al.* (BESIII Collaboration)
- 043002 Expected measurement precision of the branching ratio of the Higgs boson decaying to the di-photon at the CEPC**
Fangyi Guo, Yaquan Fang, Gang Li, Xinchou Lou
- 043101 Role of the scalar $f_0(980)$ in the process $D_s^+ \rightarrow \pi^+\pi^0\pi^0$**
Han Zhang, Yun-He Lyu, Li-Juan Liu, En Wang
- 043102 Leptoquark and vector-like quark extended model for simultaneous explanation of W boson mass and muon $g-2$ anomalies**
Shi-Ping He
- 043103 Is the magic texture of Majorana neutrinos immanent in Dirac nature?**
Yuta Hyodo, Teruyuki Kitabayashi
- 043104 Stellar energy loss rates associated with photoneutrino processes in the minimal extension of the standard model**
C. Aydin
- 043105 R -Symmetric NMSSM**
Shuai Xu, Sibozheng
- 043106 Note on rare Z -boson decays to double heavy quarkonia**
Dao-Neng Gao, Xi Gong
- 043107 Search for heavy Majorana neutrinos at future lepton colliders**
Peng-Cheng Lu, Zong-Guo Si, Zhe Wang, Xing-Hua Yang, Xin-Yi Zhang
- 043108 Search for the singlet vector-like top quark in the $T \rightarrow tZ$ channel with $Z \rightarrow \nu\bar{\nu}$ at hadron colliders**
Lin Han, Shiyu Wang, Liangliang Shang, Bingfang Yang
- 043109 Cosmological imprints of Dirac neutrinos in a keV-vacuum 2HDM**
Shao-Ping Li, Xin-Qiang Li, Xin-Shuai Yan, Ya-Dong Yang

NUCLEAR PHYSICS

- 043110 Atomic mass, Bjorken variable, and scale dependence of quark transport coefficient in Drell-Yan process for proton incident on nucleus**
Wei-Jie Xu, Tian-Xing Bai, Chun-Gui Duan

PARTICLES AND FIELDS

- 043111 Charged-current non-standard neutrino interactions at the LHC and HL-LHC**
Chong-Xing Yue, Xue-Jia Cheng, Ji-Chong Yang
- 043112 Resonance contributions from χ_{c0} in charmless three-body hadronic B meson decays**
Ya-Lan Zhang, Chao Wang, Yi Lin, Zhen-Jun Xiao
- 043113 Searching for the axion-like particle at the EIC**
Yandong Liu, Bin Yan

NUCLEAR PHYSICS

- 044101 Pre-neutron fragment mass yields for $^{235}\text{U}(n, f)$ and $^{239}\text{Pu}(n, f)$ reactions at incident energies from thermal up to 20 MeV**
Fanglei Zou, Xiaojun Sun, Kai Zhang, Hongfei Chen, Jie Yan, Junlong Tian, Yunyi Cui
- 044102 Unified mechanism behind the even-parity ground state and neutron halo of ^{11}Be**
Jing Geng, Yi-Fei Niu, Wen-Hui Long
- 044103 The European Muon Collaboration effect from short-range correlated nucleons in a x -rescaling model**
Rong Wang, Na-Na Ma, Tao-Feng Wang
- 044104 Extending the VDPC+BCS formalism by including three-body forces**
Zi-Yu Xia
- 044105 Systematic study of global optical model potentials in (d, p) transfer reactions**
Yonghao Gao, Zhongzhou Ren, Lei Jin
- 044106 Estimation of transport coefficients of dense hadronic and quark matter**
Debashree Sen, Naosad Alam, Sabyasachi Ghosh

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 045101 Joule-Thomson expansion of charged dilatonic black holes**
Meng-Yao Zhang, Hao Chen, Hassan Hassanabadi, Zheng-Wen Long, Hui Yang
- 045102 High dimensional AdS-like black hole and phase transition in Einstein-bumblebee gravity**
Chikun Ding, Yu Shi, Jun Chen, Yuebing Zhou, Changqing Liu

No. 5

LETTERS

- 051001 Production of $X_{cs\bar{s}}$ in heavy ion collisions**
Yuanyuan Hu, Hui Zhang

REVIEWS

- 052001 Regular black holes with improved energy conditions and their analogues in fluids**
Chen Lan, Yan-Gang Miao, Yi-Xiong Zang
- 052002 Production and decay of polarized hyperon-antihyperon pairs**
Karin Schöningg, Varvara Batozskaya, Patrik Adlarson, Xiaorong Zhou

PARTICLES AND FIELDS

- 053101 Study of parity violation in $\Lambda_c^+ \rightarrow \phi p$ and $\Lambda_c^+ \rightarrow \omega p$ decays**
Peng-Cheng Hong, Fang Yan, Rong-Gang Ping, Tao Luo
- 053102 Investigation of Z -boson decay into Ξ_{bc} and Ξ_{bb} baryons within the NRQCD factorization approach**
Xuan Luo, Hai-Bing Fu, Hai-Jiang Tian
- 053103 Nonextensive effects on QCD chiral phase diagram and baryon-number fluctuations within Polyakov-Nambu-Jona-Lasinio model**
Ya-Peng Zhao, Chao-Yong Wang, Shu-Yu Zuo, Cheng-Ming Li
- 053104 Revisiting D -meson twist-2, 3 distribution amplitudes**
Tao Zhong, Dong Huang, Hai-Bing Fu
- 053105 D -wave excited $cs\bar{s}$ tetraquark states with $J^{PC} = 1^{++}$ and 1^{+-}**
Zi-Yan Yang, Wei Chen
- 053106 One-loop formulas for $H \rightarrow Z\nu\bar{\nu}$ for $l = e, \mu, \tau$ in 't Hooft-Veltman gauge**
Dzung Tri Tran, Khiem Hong Phan
- 053107 Production of $d_{N\Omega}$ dibaryon in kaon induced reactions**
Jing Liu, Qi-Fang Lü, Chun-Hua Liu, Dian-Yong Chen, Yu-Bing Dong
- 053108 Photo-production of lowest $\Sigma_{1/2}^*$ state within the Regge-effective Lagrangian approach**
Yun-He Lyu, Han Zhang, Neng-Chang Wei, Bai-Cian Ke, En Wang, Ju-Jun Xie

NUCLEAR PHYSICS

- 054001 Reaction $^{55}\text{Mn} + ^{159}\text{Tb}$: preparation for the synthesis of new elements**
Lixin Chen, Suyang Xu, Zhiyuan Zhang, Jianguo Wang, Minghui Huang, Mingming Zhang, Long Ma, Huabin Yang, Chunli Yang, Xiaolei Wu, Houbing Zhou, Zhen Zhao, Xinyuan Huang, Hao Zhou, Xu Zhang, Luchong Sun, Zongchi Li, Zaiguo Gan
- 054002 Determining the nuclear temperature dependence on source neutron-proton asymmetry in heavy-ion reactions at intermediate energy**
Guofeng Qu, Yu Huang, Hua Zheng, Xingquan Liu, R. Wada, Weiping Lin, Meirong Huang, Jifeng Han, Peipei Ren, Zhenlei Yang, Xin Zhang, Qiangzhong Leng
- 054101 Open quantum system approach for heavy quark thermalization**
Zhuoxuan Xie, Baoyi Chen
- 054102 Z^0 boson associated b -jet production in high-energy nuclear collisions**
Sa Wang, Wei Dai, Ben-Wei Zhang, Enke Wang
- 054103 Microscopic study of neutron-induced fission process of ^{239}Pu via zero- and finite-temperature density functional theory**
Yong-Jing Chen, Yang Su, Li-Le Liu, Guoxiang Dong, Zhigang Ge, Nengchuan Shu, Xiaobao Wang
- 054104 Solving Schrodinger equations using a physically constrained neural network**
Kai-Fang Pu, Han-Lin Li, Hong-Liang Lü, Long-Gang Pang

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 055101 Anisotropic strange quark star in Finch-Skea geometry and its maximum mass for non-zero strange quark mass ($m_s \neq 0$)**
B. Das, K. B. Goswami, A. Saha, P. K. Chattopadhyay
- 055102 Gauging universe expansion via scalar fields**
Devanarayanan Rajeeb Kumar, S.D. Pathak, Vikash Kumar Ojha
- 055103 Gravastar in the framework of symmetric teleparallel gravity**
Sneha Pradhan, Sanjay Mandal, P.K. Sahoo
- 055104 Primordial black holes and third order scalar induced gravitational waves**
Zhe Chang, Yu-Ting Kuang, Xukun Zhang, Jing-Zhi Zhou
- 055105 Entropies of the various components of the universe**
Hao Yu, Yu-Xiao Liu, Jin Li
- 055106 Null test for cosmic curvature using Gaussian process**
Peng-Ju Wu, Jing-Zhao Qi, Xin Zhang

PARTICLES AND FIELDS

- 063101 Lepton mass correction in partial wave analyses of charmed meson semi-leptonic decays**
Han Zhang, Bai-Cian Ke, Yao Yu, En Wang
- 063102 Light meson emissions of selected charmonium-like states within compact tetraquark configurations**
Ning Li, Hui-Zhen He, Wei Liang, Qi-Fang Lü, Dian-Yong Chen, Yu-Bing Dong
- 063103 W-boson mass anomaly from a general $SU(2)_L$ scalar multiplet**
Jiajun Wu, Da Huang, Chao-Qiang Geng
- 063104 Further study of $\Omega^* |1P_{3/2^-}\rangle$ within a chiral quark model**
Hui-Hua Zhong, Ru-Hui Ni, Mu-Yang Chen, Xian-Hui Zhong, Ju-Jun Xie
- 063105 Doubly charmed dibaryon states**
Zhe Liu, Hong-Tao An, Zhan-Wei Liu, Xiang Liu
- 063106 Hadron spectra and pion form factor in dynamical holographic QCD model with anomalous 5D mass of scalar field**
Ruixiang Chen, Danning Li, Kazem Bitaghsir Fadafan, Mei Huang
- 063107 Investigation of the tetraquark states $Qq\bar{Q}\bar{q}$ in the improved chromomagnetic interaction model**
Tao Guo, Jianing Li, Jiaxing Zhao, Lianyi He
- 063108 Glueballs at physical pion mass**
Feiyu Chen, Xiangyu Jiang, Ying Chen, Keh-Fei Liu, Wei Sun, Yi-Bo Yang

NUCLEAR PHYSICS

- 064101 Single inclusive hadron production at the LHC with an improved impact parameter dependent saturation model**
Xiaofeng Gong, Yanbing Cai, Daicui Zhou, Wenchang Xiang
- 064102 Robustness of pair structures for nuclear yrast states**
Yi-Fei Pan, Yi-Yuan Cheng, Yi Lu, Hui Jiang, Xian-Rong Zhou, Yu-Min Zhao
- 064103 Restriction on the form of the quark anomalous magnetic moment from lattice QCD results**
Mamiya Kawaguchi, Mei Huang
- 064104 Elastic scattering based on energy-dependent relativistic Love-Franey model at energies between 20 and 800 MeV**
Si-Na Wei, Zhao-Qing Feng
- 064105 Simple scenario of integrated neutron-proton interaction**
Xin Yin, Yumin Zhao
- 064106 Three-dimensional potential energy surface for fission of ^{236}U within covariant density functional theory**
Ming-Hui Zhou, Ze-Yu Li, Sheng-Yuan Chen, Yong-Jing Chen, Zhi-Pan Li
- 064107 New Geiger-Nuttall law for cluster radioactivity half-lives**
Lin-Jing Qi, Dong-Meng Zhang, Song Luo, Biao He, Xi-Jun Wu, Xun Chen, Xiao-Hua Li

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 065101 Pulsars as candidates of LHAASO sources J2226+6057, J1908+0621, and J1825-1326: The leptonic origin**
Zhe Chang, Yu-Ting Kuang, Xukun Zhang, Jing-Zhi Zhou
- 065102 Shadow thermodynamics of the Hayward-AdS black hole**
Zhi Luo, Hao Yu, Shuo Cao, Jin Li
- 065103 Extended phase space thermodynamics of black hole with non-linear electrodynamic field**
G. Abbas, R. H. Ali
- 065104 Joint constraints on cosmological parameters using future multi-band gravitational wave standard siren observations**
Shang-Jie Jin, Shuang-Shuang Xing, Yue Shao, Jing-Fei Zhang, Xin Zhang
- 065105 Optical appearance of the Schwarzschild black hole in the string cloud context**
Sen Guo, Yu-Xiang Huang, Guo-Ping Li

PARTICLES AND FIELDS

- 073101 Scalar leptoquark and vector-like quark extended models as the explanation of the muon $g-2$ anomaly: bottom partner chiral enhancement case**
Shi-Ping He
- 073102 Decay properties of $D_{s0}^*(2317)^+$ as a conventional $c\bar{s}$ meson**
Meng Han, Wei Li, Su-Yan Pei, Ting-Ting Liu, Guo-Li Wang
- 073103 Triangle mechanism in the decay process $B_0 \rightarrow J/\psi K^0 f_0(980)(a_0(980))$**
Jialiang Lu, Xuan Luo, Mao Song, Gang Li
- 073104 Quasi-two-body decays $B_c \rightarrow D^* h \rightarrow D\pi h$ in perturbative QCD**
Yan-Chao Zhao, Zhi-Qing Zhang, Zi-Yu Zhang, Zhi-Jie Sun, Qiu-Bo Meng
- 073105 Systematic analysis of strange single heavy baryons Ξ_c and Ξ_b**
Zhen-Yu Li, Guo-Liang Yu, Zhi-Gang Wang, Jian-Zhong Gu, Jie Lu, Hong-Tao Shen
- 073106 Lepton flavor violating decays of vector mesons in the MRSSM**
Ke-Sheng Sun, Wen-Hui Zhang, Jian-Bin Chen, Hai-Bin Zhang, Qi-geng Yan

NUCLEAR PHYSICS

- 074001 Measurement of neutron capture cross section on ^{71}Ga at 2.15 and 3.19 MeV and uncertainty propagation and covariance analysis**
Rebecca Pachua, A. Gandhi, Namrata Singh, A. Kumar, Mayur Mehta, S. V. Suryanarayana, L. S. Danu, B. K. Nayak, B. Lalremruata
- 074101 Gluon gravitational form factors of protons from charmonium photoproduction**
Xiao-Yun Wang, Fancong Zeng, Quanjin Wang
- 074102 Weighted variation after projection method for low-lying nonyrast states**
Zhan-Jiang Lian, Xiao Lu, Xue-Wei Li, Zao-Chun Gao, Yong-Shou Chen
- 074103 Monopole effects and high-spin levels in neutron-rich ^{132}Te**
Han-Kui Wang, Amir Jalili, Ge-Xing Li, You-Bao Wang
- 074104 Finding optimal basis states for variation after projection nuclear wave functions**
Xiao Lu, Zhan-Jiang Lian, Xue-Wei Li, Zao-Chun Gao, Yong-Shou Chen
- 074105 Systematic studies on the nuclear parton distribution with photon and hadron productions in nuclear collisions at the LHC**
Xing-Long Li, Ya Zhu, Xiao-Ming Zhang, Dai-Cui Zhou
- 074106 Preformation probability and kinematics of cluster emission yielding Pb-daughters**
Joshua T. Majekodunmi, M. Bhuyan, K. Anwar, N. Abdullah, Raj Kumar
- 074107 Light nuclei production in Au+Au collisions at $\sqrt{s_{NN}} = 3$ GeV from coalescence model**
Yue Xu, Xionghong He, Nu Xu
- 074108 Examination of machine learning for assessing physical effects: Learning the relativistic continuum mass table with kernel ridge regression**
Xiao-Kai Du, Peng Guo, Xin-Hui Wu, Shuang-Quan Zhang

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 075101 Superradiance of massive scalar particles around rotating regular black holes**
Hao Yang, Yan-Gang Miao
- 075102 Non-exotic static spherically symmetric thin-shell wormhole solution in $f(Q, T)$ gravity**
Moreshwar Tayde, Sayantan Ghosh, P.K. Sahoo
- 075103 Probing Hořava-Lifshitz gravity using particle and photon dynamics in the presence of plasma**
Mirzabek Alloqulov, Farruh Atamurotov, Ahmadjon Abdujabbarov, Bobomurat Ahmedov

No. 8

PARTICLES AND FIELDS

- 083101 Holographic operator product expansion of loop operators in the $\mathcal{N}=4 \sim SO(N)$ super Yang-Mills theory**
Hong-Zhe Zhang, Wan-Zhe Feng, Jun-Bao Wu

NUCLEAR PHYSICS

- 084001 Charge-changing cross section measurements of 300 MeV/nucleon ^{28}Si on carbon and data analysis**
Chang-Jian Wang *et al.* Zi-Cheng Zhou
- 084002 Revisiting band structures in ^{118}Xe nucleus via in-beam γ -ray spectroscopy**
A. Pandey, R. Bhushan, A. Rohilla, C. Majumder, H. P. Sharma, S. Chakraborty, R. P. Singh, S. Muralithar, Yashraj, K. Katre, B. Rohila, Subodh, A. Kumar, I. M. Govil, S. Jehangir, N. Rather, G. H. Bhati, A. A. Wani, J. A. Sheikh, S. K. Chamoli
- 084101 Roles of tensor force and pairing correlation in two-proton radioactivity of halo nuclei**
Yan-Zhao Wang, Feng-Zhu Xing, Jian-Po Cui, Yong-Hao Gao, Jian-Zhong Gu
- 084102 Cross sections for inelastic $K+\phi$ scattering**
Yi-Hao Pan, Xiao-Ming Xu
- 084103 Experimental nuclear charge density and theoretical description of the above-barrier light heavy-ion fusion process**
I. I. Gontchar, M. V. Chushnyakova
- 084104 Predictions of nuclear charge radii**
Guang-Sheng Li, Cheng Xu, Man Bao
- 084105 Radiative $^9\text{Be}(n, \gamma_{0+1+2+3+4+5})^{10}\text{Be}$ reaction rate in the potential cluster model**
S.B. Dubovichenko, B.M. Yeleusheva, N.A. Burkova, A.S. Tkachenko
- 084106 New insights into the limit of the magnetic monopole flux and the heating source in white dwarfs**
Jing-Jing Liu, Dong-Mei Liu, Liang-Huan Hao
- 084107 Toward a description of the centrality dependence of the charge balance function in the HYDJET++ model**
A.S. Chernyshov, G.Kh. Eyyubova, V.L. Korotkikh, I.P. Lokhtin, L.V. Malinina, S.V. Petrushanko, A.M. Snigirev, E.E. Zabrodin

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 085101 Echoes of axial gravitational perturbations in stars of uniform density**
Kai Lin, Wei-Liang Qian
- 085102 Onset of chaotic gravitational lensing in non-Kerr rotating black holes with quadrupole mass moment**
Wen-Hao Wu, Cheng-Yong Zhang, Cheng-Gang Shao, Wei-Liang Qian
- 085103 Astrophysical observables for regular black holes with sub-Planckian curvature**
Wei Zeng, Yi Ling, Qing-Quan Jiang
- 085104 Gravitational waves from cosmic strings associated with pseudo-Nambu-Goldstone dark matter**
Ze-Yu Qiu, Zhao-Huan Yu

- 085105** **Inferring redshift and energy distributions of fast radio bursts from the first CHIME/FRB catalog**
Li Tang, Hai-Nan Lin, Xin Li
- 085106** **A note on the entanglement entropy of primary fermion fields in JT gravity**
Chang-Zhong Guo, Wen-Cong Gan, Fu-Wen Shu
- 085107** **Observational insights into the accelerating universe through reconstruction of the deceleration parameter**
Devaraja Mallesha Naik, N. S. Kavya, V. Venkatesha

No. 9

PARTICLES AND FIELDS

- 093001** **Search for the doubly heavy baryon Ξ_{bc}^+ decaying to $J/\psi\Xi_c^+$**
LHCb Collaboration *et al.*
- 093002** **Search for the rare decays $W^+ \rightarrow D_s^+\gamma$ and $Z \rightarrow D^0\gamma$ at LHCb**
LHCb Collaboration *et al.*
- 093101** **Spin density matrix for Ω^- and its polarization alignment in $\psi(3686) \rightarrow \Omega^- \bar{\Omega}^+$**
Zhe Zhang, Jiao-Jiao Song
- 093102** **Nucleons as modified Ising models**
Shu-Man Hu, Yin-Sen Luan, Ji Xu
- 093103** **Phenomenological study of $J/\psi \rightarrow \Xi^0(\Lambda\pi^0)\bar{\Xi}^0(\bar{\Lambda}\gamma)$ decays**
Peng-Cheng Hong, Rong-Gang Ping, Wei-Min Song, He Li, Xiao-Rong Zhou
- 093104** **Testing type II seesaw leptogenesis at the LHC**
Chengcheng Han, Zhanhong Lei, Weihao Liao
- 093105** **J/ψ pair hadroproduction at next-to-leading order in nonrelativistic-QCD at CMS**
Li-Ping Sun
- 093106** **The Λ -type P -wave bottom baryon states via the QCD sum rules**
Qi Xin, Zhi-Gang Wang, Fei Lü

NUCLEAR PHYSICS

- 094001** **Measurement of the $(n, 2n)$ reaction cross-sections of iodine and cesium induced by D-T neutrons with covariance analysis**
Changlin Lan, Yuxing Niu, Yuting Wei, Fangxiao Lu, Xianlin Yang, Ruirui Xu, Yue Zhang, Yujie Ge, Jiahao Wang, Gong Jiang
- 094101** **Investigation of the relationship between mirror proton radii and neutron-skin thickness**
Meng-Qi Ding, Ping Su, De-Qing Fang, Si-Min Wang
- 094102** **Multi-skyrmion states in the Skyrme model with a false vacuum potential**
Jun-Shuai Wang, Yong-Liang Ma
- 094103** **Systematic calculations of cluster radioactivity half-lives with a screened electrostatic barrier**
Xiao Liu, Jie-Dong Jiang, Lin-Jing Qi, Yang-Yang Xu, Xi-Jun Wu, Xiao-Hua Li

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 095001** **Prospects for the detection rate of very-high-energy γ -ray emissions from short γ -ray bursts with the HADAR experiment**
Qi-Ling Chen, Pei-Jin Hu, Jing-Jing Su, Ming-Ming Kang, Yi-Qing Guo, Tian-Lu Chen, Dan-Zeng Luo-Bu, Yu-fan Fan, You-Liang Feng, Qi Gao, Quan-Bu Gou, Hong-Bo Hu, Hai-Jin Li, Cheng Liu, Mao-Yuan Liu, Wei Liu, Xiang-Li Qian, Bing-Qiang Qiao, Hui-Ying Sun, Xu Wang, Zhen Wang, Guang-Guang Xin, Yu-Hua Yao, Qiang Yuan, Yi Zhang, Bing Zhao
- 095101** **Freeze-in dark matter in EDGES 21-cm signal**
Shengyu Wu, Shuai Xu, Sibao Zheng
- 095102** **Two non-perturbative α' or loop corrected string cosmological solutions**
Li Song, Deyou Chen
- 095103** **Strange quark mass (m_s) dependent model of anisotropic strange quark star**
A. Hakim, K.B. Goswami, P.K. Chattopadhyay
- 095104** **Thin-shell gravastar model in $f(Q, T)$ gravity**
Sneha Pradhan, Debasmita Mohanty, P.K. Sahoo
- 095105** **Restricted phase space thermodynamics of charged AdS black holes in conformal gravity**
Xiangqing Kong, Zhiqiang Zhang, Liu Zhao

No. 10

PARTICLES AND FIELDS

- 103001** **Search for two-neutrino double-beta decay of ^{136}Xe to the 0_1^+ excited state of ^{136}Ba with the complete EXO-200 dataset**
S. Al Kharusi *et al.* (EXO-200 Collaboration)
- 103101** **Momentum dependence of ρ - ω mixing in the pion vector form factor and its effect on $(g-2)_\mu$**
Yun-Hua Chen, Meng-Ge Qin
- 103102** **Exploring muonphilic ALPs at muon colliders**
Chih-Ting Lu, Xiaoyi Luo, Xinqi Wei
- 103103** **Custodial symmetry violation in scalar extensions of the standard model**
Huayang Song, Xia Wan, Jiang-Hao Yu

Index-8

- 103104** $B_{(s)} \rightarrow D_{(s)}^{*}$ form factors in HQEFT and model independent analysis of relevant semileptonic decays with NP effects
Ya-Bing Zuo, Hong-Yao Jin, Jing-Ying Tian, Jia Yi, Han-Yu Gong, Ting-Ting Pan
- 103105** Prospects of gluino searches in multi-lepton channels in light of the ongoing LHC RUN-III
Abhi Mukherjee, Saurabh Niyogi, Sujoy Poddar, Jyoti Prasad Saha
- 103106** Vector-like lepton searches at a muon collider in the context of the 4321 model
Qilong Guo, Leyun Gao, Yajun Mao, Qiang Li

NUCLEAR PHYSICS

- 104101** On the microscopic shell-model version of the Bohr-Mottelson collective model
H. G. Ganev
- 104102** $U_A(1)$ symmetry restoration at high baryon density
Jianing Li, Jin Gui, Pengfei Zhuang
- 104103** Estimation of radiative capture $^{13}\text{B}(n, \gamma_{0+1})^{14}\text{B}$ reaction rate in the modified potential cluster model
A.S. Tkachenko, N.A. Burkova, B.M. Yeleusheva, S.B. Dubovichenko
- 104104** Heavy ion fusion of spherical nuclei
H.C. Manjunatha, N. Sowmya, L. Seenappa, P.S. Damodara Gupta, N. Manjunatha
- 104105** Spin alignment of vector mesons from quark dynamics in a rotating medium
Minghua Wei, Mei Huang
- 104106** Reconstruction of baryon number distributions
Chuang Huang, Yang-yang Tan, Rui Wen, Shi Yin, Wei-jie Fu
- 104107** Decomposition of multi-particle azimuthal correlations in Q -cumulant analysis
L. Nadder, J. Milošević, D. Devetak, Fu-Qiang Wang
- 104108** Study of various ground state decay mechanisms of Actinide nuclei
Chahat Jindal, Nitin Sharma, Manoj K. Sharma

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 105101** Parameter estimation for Einstein-dilaton-Gauss-Bonnet gravity with ringdown signals
Cai-Ying Shao, Yu Hu, Cheng-Gang Shao
- 105102** Thermodynamic quantities and phase transitions of five-dimensional de Sitter hairy spacetime
Xin-Ping Li, Li-Chun Zhang, Yu-Bo Ma, Huai-Fan Li
- 105103** Physical aspects of $f(R, G_{\mu\nu} T^{\mu\nu})$ modified gravity theories
Mihai Marciu, Dana Maria Ioan
- 105104** Simulation of high-frequency gravitational wave detection using modulated Gaussian beam
Mingjun Wu, Jin Li, Qingquan Jiang
- 105105** Strong gravitational lensing of rotating regular black holes in non-minimally coupled Einstein-Yang-Mills theory
Ruanjing Zhang, Jiliang Jing, Zhipeng Peng, Qihong Huang

No. 11

PARTICLES AND FIELDS

- 113001** Prospects of CP violation in Λ decay with a polarized electron beam at the STCF
Sheng Zeng, Yue Xu, Xiao-Rong Zhou, Jia-Jia Qin, Bo Zheng
- 113002** JUNO sensitivity on proton decay $p \rightarrow \nu K^+$ searches
Angel Abusleme *et al.* (JUNO Collaboration)
- 113003** Determination of the resonant parameters of excited vector strangonia with $e^+e^- \rightarrow \eta\phi$ data
Wenjing Zhu, Xiaolong Wang
- 113101** CP asymmetry from the resonance effect of the B meson decay process with π and K final states
Xi-Liang Yuan, Gang Lü, Na Wang, Li-Ying Zhang, Xin-Heng Guo
- 113102** Possible molecular states from interactions of charmed strange baryons
Dan Song, Shu Chen, Shu-Yi Kong, Jun He

NUCLEAR PHYSICS

- 114001** New measurement of ^4He and proton decays from resonant states in ^{19}Ne
Kai Ma, Yan-Lin Ye, Cheng-Jian Lin, Jia-Hao Chen, Dong-Xi Wang, Jia-Xing Han, Hui-Ming Jia, Lei Yang, Li-Sheng Yang, Zi-Yao Hu, Ying Chen, Wei-Liang Pu, Gen Li, Zhi-Wei Tan, Da-Hu Huang, Tian-Peng Luo, Shan-Hao Zhong, Jian-Ling Lou, Xiao-Fei Yang, Zhi-Huan Li, Qi-Te Li, Jin-Yan Xu, Zai-Hong Yang, Kang Wei
- 114101** Measurement of $^{169}\text{Tm}(n, 2n)^{168}\text{Tm}$ reaction cross sections from 12 to 19.8 MeV
Chuanxin Zhu, Hairui Guo, Jia Wang, Pu Zheng, Xinxin Lu, Tonghua Zhu
- 114102** Study of neutron density fluctuation and neutron-proton correlation in Au+Au collisions using PYTHIA8/Angantyr
Zuman Zhang, Sha Li, Ning Yu, Jianping Lin, Shuang Li, Siyu Tang, Daicui Zhou
- 114103** Simple model for cluster radioactivity half-lives in trans-lead nuclei
Xiao-Yan Zhu, Song Luo, Lin-Jing Qi, Dong-Meng Zhang, Xiao-Hua Li, Wen-Bin Lin
- 114104** Expanding proton dripline by employing a number of muons
Lang Liu, Yongle Yu

114105 **Holographic Schwinger effect in an anisotropic background with Gauss-Bonnet corrections**
Wen-Bin Chang, De-fu Hou

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 115101 **Photon motion and weak gravitational lensing in black-bounce spacetime**
Furkat Sarikulov, Farruh Atamurotov, Ahmadjon Abdujabbarov, Vokhid Khamidov
- 115102 **Continuous phase transition of the de Sitter spacetime with charged black holes and cloud of strings and quintessence**
Hai-Long Zhen, Yun-Zhi Du, Huai-Fan Li, Xin-Ping Li, Li-Chun Zhang
- 115103 **Translation gauge field theory of gravity in Minkowski spacetime**
Hang Li, Ping Wang
- 115104 **Phantom cosmologies from the simplest parameterization of the DE model using observational data in a BI type universe**
H. Hossienkhani, F. Mahmoodi, V. Fayaz, S.A.A. Terohid, N. Azimi, Z. Zarei
- 115105 **Revisiting the thermodynamics of the BTZ black hole with a variable gravitational constant**
Yan-Ying Bai, Xuan-Rui Chen, Zhen-Ming Xu, Bin Wu
- 115106 **Thermodynamics under the impact of thermal fluctuations and quasi-normal modes of Euler-Heisenberg AdS BH in the framework of NLED**
R. H. Ali, G. Abbas
- 115107 **Constraining the $f(R, T) = R + 2\lambda T$ cosmological model using recent observational data**
N. Myrzakulov, M. Koussour, Alnadhief H. A. Alfedeel, E. I. Hassan
- 115108 **Holographic entanglement entropy with Power-Maxwell electrodynamics in higher dimensional AdS black hole spacetime**
Kongchen Wang, Wanhe Zhang, Weiping Yao

No. 12

PARTICLES AND FIELDS

- 123001 **Cryogenic phonon-detector model with solid argon for detecting dark matter**
Yu Liu, Lei Zhang, Yulu Yan, Shin-Ted Lin, Shukui Liu, Jinjun Zhu, Changjian Tang, Haoyang Xing
- 123002 **Measurement of the effective weak mixing angle at the CEPC**
Zhenyu Zhao, Siqi Yang, Manqi Ruan, Minghui Liu, Liang Han
- 123101 **Molecular states in $D_s^{(*)+} \Xi_c^{('*)}$ systems**
Nijjati Yalikun, Xiang-Kun Dong, Bing-Song Zou
- 123102 **Light Higgs boson in the NMSSM confronted with the CMS di-photon and di-tau excesses**
Weichao Li, Haoxue Qiao, Jingya Zhu
- 123103 **(Pseudo) Scalar mesons in a self-consistent NJL model**
Xiaozhu Yu, Xinyang Wang
- 123104 **Quantum calculation of axion-photon transition in electromagnetodynamics for cavity haloscope**
Tong Li, Rui-Jia Zhang

NUCLEAR PHYSICS

- 124001 **Measurement and analysis of the neutron-induced total cross-sections of ^{209}Bi from 0.3 eV to 20 MeV on the Back-n at CSNS**
Jieming Xue, Song Feng, Yonghao Chen, Han Yi, Xinxiang Li, Min Xiao, Pinjing Cheng, Rong Liu, Yiwei Yang, Zijie Han, Dajun Zhao, Haoqiang Wang, Baoqian Li, Jirong Zhao, Zijun Liu, Chaomin Chen, Wen Luo, Bo Zheng
- 124002 **Isomeric pair $^{95m,g}\text{Nb}$ in the photonuclear reactions on $^{m\text{at}}\text{Mo}$ at the bremsstrahlung end-point energy of 38–93 MeV**
I.S. Timchenko, O.S. Deiev, S.M. Olejnik, S.M. Potin, V.A. Kushnir, V.V. Mytrochenko, S.A. Perezhugin, V.A. Bocharov
- 124101 ***Ab initio* calculations of mirror energy difference in *sd*-shell nuclei**
Hong-Hui Li, Jian-Guo Li, Meng-Ran Xie, Wei Zuo
- 124102 **Bayesian evaluation of energy dependent neutron induced fission yields**
Ming-Xiang Xiao, Xiao-Jun Bao, Zheng Wei, Ze-En Yao
- 124103 **Density-dependent relativistic mean field approach and its application to single- Λ hypernuclei in oxygen hyperisotopes**
Shi-Yuan Ding, Wei Yang, Bao-Yuan Sun
- 124104 **Systematic extraction of the strong absorption distance and Coulomb barrier from elastic scattering**
Yun Yang, Pei-Wei Wen, Cheng-Jian Lin, Hui-Ming Jia, Lei Yang, Nan-Ru Ma, Feng Yang, Tian-Peng Luo, Teng-Huan Mo, Chang Chang, Hai-Rui Duan, Ming-Hao Zhang, Zhi-Jie Huang, Cheng Yin
- 124105 **Evaporation residue cross sections of superheavy nuclei based on optimized nuclear data**
Jia-Xing Li, Hong-Fei Zhang

PARTICLE AND NUCLEAR ASTROPHYSICS AND COSMOLOGY

- 125101 **Consistency of Pantheon+ supernovae with a large-scale isotropic universe**
Li Tang, Hai-Nan Lin, Liang Liu, Xin Li
- 125102 **Analytical approximate solutions of AdS black holes in Einstein-Weyl-scalar gravity**
Ming Zhang, Sheng-Yuan Li, De-Cheng Zou, Chao-Ming Zhang
- 125103 **Quasinormal modes of Bardeen black holes with a cloud of strings**
Yunlong Liu, Xiangdong Zhang
- 125104 **Slow-roll inflation in $f(T, \mathcal{T})$ modified gravity**
Aaqid Bhat, Sanjay Mandal, P.K. Sahoo

125105 Probing light DM via the Migdal effect with spherical proportional counter

Yuchao Gu, Jie Tang, Lei Wu, Bin Zhu

125106 Accretion around a hairy black hole in the framework of gravitational decoupling theory

H. Rehman, G. Abbas

Erratum and Addendum

129001 Erratum: Corrigendum to "Effect of dark energy models on the energy content of charged and rotating black holes" [Chinese Phys. C, 46 (2022) 015101]

Asia Liaqat, Ibrar Hussain

Index-1 Chinese Physics C Subject Index to Vol. 47 (2023)