

Chinese Physics C

Volume 47 Number 2 February 2023

CONTENTS

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 $\gamma e^- \rightarrow Ze^- \rightarrow l^- l^+ e^-$ 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

(Continued on inside back cover)

国内统一刊号: CN 11-5641/O4 国内邮发代号: 2-522 定价: 150.00 元

国内外公开发行 * 版权所有 翻印必究

- 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 **$f(\bar{R}, L(X))$ -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