

PAPERS PUBLISHED

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K-shell internal conversion coefficient for M4 decay of the 30.8 keV isomer in ^{93}Nb , V. Horvat, E.E. Tereshatov, J.C. Hardy, N. Nica, C.M. Folden, III, V.E. Iacob and M.B. Trzhaskovskaya, Phys. Rev. C **102**, 014310 (2020).

^{19}Ne level structure for explosive nucleosynthesis, M.R. Hall, D.W. Bardayan, T. Baugher, A. Lepailleur, S.D. Pain, A. Ratkiewicz, S. Ahn, J.M. Allen, J.T. Anderson, A.D. Ayangeakaa, J.C. Blackmon, S. Burcher, M.P. Carpenter, S.M. Cha, K.Y. Chae, K.A. Chipps, J.A. Cizewski, M. Febbraro, O. Hall, J. Hu, C.L. Jiang, K.L. Jones, E.J. Lee, P.D. O'Malley, S. Ota, B.C. Rasco, D. Santiago-Gonzalez, D. Seweryniak, H. Sims, K. Smith, W.P. Tan, P. Thompson, C. Thornsberry, R.L. Varner, D. Walter, G.L. Wilson, and S. Zhu, Phys. Rev. C **102**, 045802 (2020).

Almost medium-free measurement of the Hoyle state direct-decay component with a TPC, J. Bishop, G.V. Rogachev, S. Ahn, E. Aboud, M. Barbui, A. Bosh, C. Hunt, H. Jayatissa, E. Koshchiy, R. Malecek, S. T. Marley, E.C. Pollacco, C.D. Pruitt, B.T. Roeder, A. Saastamoinen, L.G. Sobotka and S. Upadhyayula, Phys. Rev. C **102**, 041303(R) (2020).

An effective way of measuring the excitation function for (α, n) (α, n) reactions at low energies, E.M. Gazeeva, A.A. Bezbakh, V.Z. Goldberg, M.S. Golovkov, B. Zalewski, Zh.K. Kurmanaliyev, D.K. Nauruzbayev, A.K. Nurmukhanbetova, and A. Serikov, Bulletin of the Russian Academy of Sciences: Physics **84**, 420 (2020).

Astatine partitioning between nitric acid and conventional solvents: indication of covalency in ketone complexation of $\{\text{AtO}\}^+$, Jonathan D. Burns, Evgeny E. Tereshatov, Mallory A. McCarthy, Lauren A. McIntosh, Gabriel C. Tabacaru, Xin Yang, Michael B. Hall, and Sherry J. Yennello, Chem. Commun. **56**, 9004 (2020).

Astrophysical S - factor for the $^3\text{He}(\alpha, \gamma)^7\text{Be}$ reaction via the asymptotic normalization coefficient (ANC) method, G.G. Kiss, M.La Cognata, C. Spitaleri, R. Yarmukhamedov, I. Wiedenhöver, L.. Baby, S. Cherubini, A. Cveticinović, G.D'Agata, P. Figuera, G.L. Guardo, M. Gulino, S. Hayakawa, I. Indelicato, L. Lamia, M. Lattuada, F. Mudò, S. Palmerini, R.G. Pizzone, G.G. Rapisarda, S. Romano, M.L. Sergi, R. Spartá, O. Trippella, A. Tumino, M. Anastasiou, S.A. Kuvin, N. Rijal, B. Schmidt, S.B. Igamov, S.B. Sakuta, K.I. Tursunmakhatov, Zs. Fülöp, Gy. Gyürky, T. Szűcs, Z. Halász, E. Somorjai, Z. Hons, J. Mrazek, R.E. Tribble and A.M. Mukhamedzhanov, Phys. Lett. B **807**, 135606 (2020).

Beam energy dependence of net- Λ fluctuations measured by the STAR experiment at the BNL Relativistic Heavy Ion Collider, J. Adam, D.M. Anderson, C A. Gagliardi, A. Hamed, L. He, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, P.K. Sahu and R.E. Tribble, Phys. Rev. C **102**, 024903 (2020).

Beam-energy dependence of the directed flow of deuterons in Au+Au Au+Au collisions, J. Adam, D. M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo and R.E. Tribble, Phys. Rev. C **102**, 044906 (2020).

Beam-energy dependence of the production of light nuclei in Au + Au collisions, Wenbin Zhao, Chun Shen, Che Ming Ko, Quansheng Liu, and Huichao Song, Phys. Rev. C **102**, 044912 (2020).

Beta-delayed charged-particle spectroscopy using TexAT, J. Bishop, G.V. Rogachev, S. Ahn, E. Aboud, M. Barbui, P. Baron, A. Bosh, E. Delagnes, J. Hooker, C. Hunt, H. Jayatissa, E. Koshchiy, R. Malecek, S. T. Marley, R. O'Dwyer, E.C. Pollacco, C. Pruitt, B.T. Roeder, A. Saastamoinen, L.G. Sobotka, and S. Upadhyayula, Nucl. Instrum. Methods Phys. Res. **A964**, 163773 (2020).

Chaos, percolation and the coronavirus spread, Aldo Bonasera and Suyalatu Zhang, Front. Phys. **8**, 00171 (2020).

Chaos, percolation and the coronavirus spread: a two-step model, Hua Zheng and Aldo Bonasera, Eur. Phys. J. Plus **135**, 799 (2020).

Charged particle track reconstruction with S π RIT Time Projection Chamber, J.W. Lee, G. Jhang, G. Cerizza, J. Barney, J. Estee, T. Isobe, M. Kaneko, M. Kurata-Nishimura, W.G. Lynch, T. Murakami, C.Y. Tsang, M.B. Tsang, R. Wang, B. Hong, A.B. McIntosh, H. Sakurai, C. Santamaria, R. Shane, S. Tangwancharoen, S.J. Yennello, and Y. Zhang, Nucl. Instrum. Methods Phys. Res. **A965**, 163840 (2020).

Charmed hadron chemistry in relativistic heavy-ion collisions, Shanshan Cao, Kai-Jia Sun, Shu-Qing Li, Shuai Y.F. Liu, Wen-Jing Xing, Guang-You Qin and Che Ming Ko, Phys. Lett. B **807**, 135561 (2020).

Constraining the in-medium nucleon-nucleon cross section from the width of nuclear giant dipole resonance, Rui Wang, Zhen Zhang, Lie-Wen Chen, Che Ming Ko and Yu-Gang Ma, Phys. Lett. B **807**, 135532 (2020).

Correlation between time and angular alignment in molecular dynamics simulations of heavy ion collisions, B. Harvey, M. Youngs, A.B. McIntosh, A. Jedelev, A. Abbott, J. Gauthier, K. Hagel, A. Hannaman, A. Hood, K. Krieble, Y.-W. Lui, L.A. McIntosh, A. Rodriguez Manso, M. Sorensen, Z. Tobin, R. Wada, A. Zarrella, and S. J. Yennello, Phys. Rev. C **102**, 064625 (2020).

Corrigendum: Balmer emission induced by proton impact on atomic hydrogen (2019 *J. Phys. B: At. Mol. Opt. Phys.* **52 105701)**, I.B. Abdurakhmanov, O. Erkilic, A.S. Kadyrov, I. Bray, S.K. Avazbaev and A. M. Mukhamedzhanov, J. Phys. B **53**, 139501 (2020).

Diagnostic methodologies of laser-initiated $^{11}\text{B}(\text{p},\alpha)2\alpha$ fusion reactions, Fabrizio Consoli, Riccardo De Angelis, Pierluigi Andreoli, Aldo Bonasera, Mattia Cipriani, Giuseppe Cristofari, Giorgio Di Giorgio, Danilo Giulietti and Martina Salvadori, *Front. Phys.* **8**, 561492 (2020).

Effects of cluster correlations on fragment emission in $^{12}\text{C}+^{12}\text{C}$ at 50 MeV/nucleon, R. Han, Z. Chen, R. Wada, A. Ono, G. Tian, F. Shi, X. Zhang, B. Liu, and H. Sun, *Phys. Rev. C* **102**, 064617 (2020).

Energy density functional and sensitivity of energies of giant resonances to bulk nuclear matter properties, S. Shlomo and A.I. Sanzhur, *Nucl. Phys. At. Energy* **21**, 113 (2020).

Enhanced production of strange baryons in high-energy nuclear collisions from a multiphase transport model, Tianhao Shao, Jinhui Chen, Che Ming Ko, and Zi-Wei Lin, *Phys. Rev. C* **102**, 014906 (2020).

First measurement in the Gamow window of a reaction for the γ - process in inverse kinematics: $^{76}\text{Se}(\alpha,\gamma)^{80}\text{Kr}$, J. Fallis, C. Akers, A.M. Laird, A. Simon, A. Spyrou, G. Christian, D. Connolly, U. Hager, D.A. Hutcheon, A. Lennarz, P. O'Malley, S.J. Quinn, J. Riley, A. Rojas, C. Ruiz, and M. Williams, *Phys. Lett. B* **807**, 135575 (2020).

First measurement of Λ_c baryon production in Au+Au collisions at $\sqrt{s_{\text{NN}}} = 200$ GeV, J. Adam, D. M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, *Phys. Rev. Lett.* **124**, 172301 (2020).

Fission-fragment excitation energy sharing beyond scission, Aurel Bulgac, *Phys. Rev. C* **102**, 044609 (2020).

Hydrophobic amine-based binary mixtures of active pharmaceutical and food grade ingredients: characterization and application in indium extraction from aqueous hydrochloric acid media, Joseph M. Edgecomb, Evgeny E. Tereshatov, Guillaume Zante, Maria Boltoeva and Charles M. Folden, III, *Green Chem.* **22**, 7047 (2020).

Implementing chiral three-body forces in terms of medium-dependent two-body forces, Jeremy W. Holt, Mamiya Kawaguchi and Norbert Kaiser, *Front. in Phys.* **8**, 100 (2020).

Intensity of a weak 519-keV γ ray following β decay of the superallowed emitter ^{34}Ar determined via the $^{33}\text{S}(\text{p},\gamma)^{34}\text{Cl}$ reaction, H.I. Park, J.C. Hardy, M. Bencomo, V.E. Iacob, I.S. Towner, K.T. Macon, W.P. Tan, M. Brodeur, A. Boeltzig, B. Frentz, S.L. Henderson, J. Long, S. McGuinness, O. Olivas-Gomez, P. O'Malley, G. Seymour, B. Vande Kolk, and A. Kayani, *Phys. Rev. C* **102**, 045502 (2020).

International network of nuclear structure and decay data evaluators, Paraskevi Dimitriou, Shamsuzzoha Basunia, Lee Bernstein, Jun Chen, Zsoltan Elekes, Xiaolong Huang, Hideki Iimura, Ashok

Jain, John Kelley, Tibor Kibedi, Filip Kondev, Stefan Lalkovski, Elizabeth McCutchan, Ivan Mitropolsky, Gopal Mukherjee, Alexandru Negret, Caroline Nesaraja, Ninel Nica, Sorin Pascu, Alexander Rodionov, Balraj Singh, Sukhjeet Singh, Michael Smith, Alejandro Sonzogni, Janos Timar, Jagdish Tuli, Marco Verpelli, Dong Yang and Viktor Zerkin, International Conference on Nuclear Data for Science and Technology, Eur. Phys. J. Web of Conferences **239**, 15004 (2020).

Investigation of the linear and mode-coupled flow harmonics in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Phys. Lett. B **809**, 135728 (2020).

Isoscalar and isovector giant resonances in closed shells nuclei and bulk properties of nuclear matter, S. Shlomo, Phys. Atom. Nuclei **83**, 599 (2020).

Isotopic equilibrium constants for very low-density and low-temperature nuclear matter, J.B. Natowitz, H. Pais, G. Röpke, J. Gauthier, K. Hagel, M. Barbui, and R. Wada, Phys. Rev. C **102**, 064621 (2020).

Light nuclei production in Au+Au collisions at $\sqrt{s_{NN}} = 5-200$ GeV from JAM model, Hui Liu, Dingwei Zhang, Shu He, Kai-Jia Sun, Ning Yu and Xiaofeng Luo, Phys. Lett. B **805**, 135452 (2020).

Mean Field Theory, Vladimir M. Kolomietz and Shalom Shlomo, World Scientific Publishing Company, Incorporated, 2020.

Measurement of D^0 -meson + hadron two-dimensional angular correlations in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Phys. Rev. C **102**, 014905 (2020).

Measurement of away-side broadening with self-subtraction of flow in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Chinese Phys. C **44**, 104001 (2020).

Measurement of groomed jet substructure observables in p+p collisions at $\sqrt{s} = 200$ with STAR, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Phys. Lett. B **811**, 135846 (2020).

Measurement of inclusive J/ψ polarization in $p+p$ collisions at $\sqrt{s} = 200$ GeV by the STAR experiment, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Phys. Rev. D **102**, 092009 (2020).

Measurement of inclusive charged-particle jet production in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Phys. Rev. C **102**, 054913 (2020).

Measurement of the central exclusive production of charged-particle pairs in proton-proton collisions at $\sqrt{s} = 200$ GeV with the STAR detector at RHIC, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R. E. Tribble, JHEP **2020**, 178 (2020).

Neutron elastic scattering on calcium isotopes from chiral nuclear optical potentials, T.R. Whitehead, Y. Lim and J.W. Holt, Phys. Rev. C **101**, 064613 (2020).

Nuclear data sheets for A=153, N. Nica, Nucl. Data Sheets **170**, 1 (2020).

Nuclear liquid-gas phase transition with machine learning, Rui Wang, Yu-Gang Ma, R. Wada, Lie-Wen Chen, Wan-Bing He, Huan-Ling Liu and Kai-Jia Sun, Phys. Rev. Research **2**, 043202 (2020).

Observation of $T=3/2$ isobaric analog states in ${}^9\text{Be}$ using $p + {}^8\text{Li}$ resonance scattering, C. Hunt, G.V. Rogachev, S. Almaraz-Calderon, A. Aprahamian, M. Avila, L.T. Baby, B. Bucher, V.Z. Goldberg, E.D. Johnson, K.W. Kemper, A.N. Kuchera, W.P. Tan, and I. Wiedenhöver, Phys. Rev. C **102**, 014615 (2020).

One-center close-coupling approach to two-center rearrangement collisions, I.B. Abdurakhmanov, C. Plowman, A.S. Kadyrov, I. Bray, and A.M. Mukhamedzhanov, J. Phys. B: At. Mol. Opt. Phys. **53**, 145201 (2020).

Pre-equilibrium neutron emission in fission or fragmentation, Aurel Bulgac, Phys. Rev. C **102**, 034612 (2020).

Precise β branching-ratio measurement for the $0^+ \rightarrow 0^+$ superallowed decay of ${}^{34}\text{Ar}$, V.E. Iacob, J.C. Hardy, H.I. Park, M. Bencomo, L. Chen, V. Horvat, N. Nica, B.T. Roeder, A. Saastamoinen, and I.S. Towner, Phys. Rev. C **101**, 045501 (2020).

Primary yields of protons measured using CR-39 in laser-induced deuteron-deuteron fusion reactions, Yue Zhang, Long-Xiang Liu, Hong-Wei Wang, Yu-Gang Ma, Bai-Fei Shen, Guo-Qiang Zhang, Mei-Rong Huang, Aldo Bonasera, Wen-Peng Wang, Jian-Cai Xu, Shun Li, Gong-Tao Fan, Xi-Guang Cao, Yong Yu, Jian-Jun He, Chang-Bo Fu, Suyalatu Zhang, Xin-Rong Hu, Xin-Xiang Li, Zi-Rui Hao, Jun-Wen Wang, Han Xue, and Hai-Juan Fu, Nucl. Sci. Tech. **31**, 8 (2020).

Probing the neutron-proton asymmetry dependence of the nuclear source temperature with light charged particles, Y. Huang, W. Lin, H. Zheng, R. Wada, X. Liu, G. Qu, M. Huang, P. Ren, J. Han, M.R. D. Rodrigues, S. Kowalski, T. Keutgen, K. Hagel, M. Barbui, A. Bonasera, and J.B. Natowitz, Phys. Rev. C **101**, 064603 (2020).

Probing the partonic degrees of freedom in high-multiplicity p -Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Wenbin Zhao, Che Ming Ko, Yu-Xin Liu, Guang-You Qin and Huichao Song, Phys. Rev. Lett. **125**, 072301 (2020).

Properties of strange quark stars with isovector interactions, He Liu, Jun Xu and Che Ming Ko, Phys. Lett. B **803**, 135343 (2020).

Spin polarizations in a covariant angular momentum conserved chiral transport model, S.Y.F. Liu, Y.F. Sun, and C.M. Ko, Phys. Rev. Lett. **125**, 062301 (2020).

Yield ratio of hypertriton to light nuclei in heavy-ion collisions from $\sqrt(s_{NN}) = 4.9$ GeV to 2.76 TeV, T.H. Shao, J.H. Chen, C.M. Ko, K.J. Sun, and Z.B. Zu, Chinese Phys. C **44**, 114001 (2020).

Number of constituent quark scaling of elliptic flows in high multiplicity p-Pb collisions at $\sqrt(s_{NN}) = 5.02$ TeV, W.B. Zhao, C.M. Ko, Y.X. Liu, G.Y. Chen, and H.C. Song, Nucl. Phys. A**1005**, 121876 (2021).

Local spin polarizations in relativistic heavy ion collisions, S. Y. F. Liu, Y. F. Sun, and C. M. Ko, Nucl. Phys. A**1005**, 121895 (2021).

Symmetry energy investigation with pion production from Sn+Sn systems, G. Jhang *et al.*, Phys. Lett. B **813**, 136106 (2021).

Effects of QCD critical point on light nuclei production, K.J. Sun, F. Li, and C.M. Ko, Phys. Lett. B **816**, 136258 (2021).

Reconstruction of neutral-triggered charged recoil jets in $s = 200$ GeV p+p collisions at the STAR experiment, Derek Anderson, XLIX International Symposium on Multiparticle Dynamics (ISMD 2019), Eur. Phys. J. Web of Conferences **235**, 05005, (2020).

Astrophysical S-factor for the $^3\text{He}(\alpha, \gamma)^7\text{Be}$ reaction via the asymptotic normalization coefficient (ANC) method, G.G. Kiss, M. La Cognata, C. Spitaleri, R. Yarmukhamedov, I. Wiedenhöver, L.T. Baby, S. Cherubini, A. Cveticinovic, G. D'Agata, P. Figuera, G.L. Guardo, M. Gulino, S. Hayakawa, I. Indelicato, L. Lamiab, M. Lattuada, F. Mudò, S. Palmerini, R.G. Pizzone, G.G. Rapisarda, S. Romano, M.L. Sergi, R. Spartà, O. Trippella, A. Tumino, M. Anastasiou, S.A. Kuvin, N. Rijal, B. Schmidt, S.B. Igamov, S.B. Sakuta, K.I. Tursunmakhadov, Zs. Fülöp, Gy. Gyürky, T. Szücs, Z. Halász, E. Somorjai, Z. Hons, J. Mrázek, R.E. Tribble, A.M. Mukhamedzhanov, Phys. Lett. B **807**, 135606 (2020).

Status on $^{12}\text{C} + ^{12}\text{C}$ fusion at deep sub-barrier energies: impact of resonances on astrophysical S* - factors, C. Beck, A.M. Mukhamedzhanov, X. Tang, Eur. Phys. J. A **56**, 87 (2020)

Trojan horse method as an indirect approach to study resonant reactions in nuclear astrophysics, A.M. Mukhamedzhanov, A.S. Kadyrov, and D.Y. Pang, Eur. Phys. J. A **56**, 233 (2020).

A new waveform analysis technique to extract good energy and position resolution from a dual-axis duo-lateral position-sensitive detector, M.W. Aslin, A. Hannaman, M.D. Youngs, A.B. McIntosh, A. Abbott, P. Adamson, J. Gauthier, K. Hagel, A. Jedelev, Y.-W. Lui, L.A. McIntosh, M.Q. Sorensen, Z.N. Tobin, R. Wada, A. Wakhle, and S.J. Yennello, Nucl. Instrum. Methods Phys. Res. **A985**, 164674 (2021).

Effect of hydrophobic ionic liquids aqueous solubility on metal extraction from hydrochloric acid media: Mathematical modelling and trivalent thallium behavior, Evgeny E. Tereshatov, Valérie Mazan, Maria Boltoeva and Charles M. Folden, III, Sep. Purif. Technol. **255**, 117650 (2021).

Local spin polarizations in relativistic heavy-ion collisions, Shuai Y.F. Liu, Yifeng Sun and Che Ming Ko, in: Quark Matter 2019, Wuhan, China, Nucl. Phys. **A1005**, 121895, (2021).

Measurements of D-D fusion neutrons generated in nanowire array laser plasma using Timepix3 detector, Peter Rubovič, Aldo Bonasera, Petr Burian, Zhengxuan Cao, Chang-Bo Fu, Defeng Kong, Haoyang Lan, Yao Lou, Wen Luo, Chong Lv, Yu-Gang Ma, Wenjun Ma, Zhiguo Ma, Lukáš Meduna, Zhusong Mei, Yesid Mora, Zhuo Pan, Yinren Shou, Rudolf Sýkora, Martin Veselský, Pengjie Wang, Wenzhao Wang, Xueqing Yan, Guoqiang Zhang, Jiarui Zhao, Yanying Zhao and Jan Žemlička, Nucl. Instrum. Methods Phys. Res. **A985**, 164680 (2021).

Nonmonotonic energy dependence of net-proton number fluctuations, J. Adam, D.M. Anderson, C.A. Gagliardi, A. Hamed, T. Lin, X. Liu, Y. Liu, S. Mioduszewski, N.R. Sahoo, and R.E. Tribble, Phys. Rev. Lett. **126**, 092301 (2021).

Nuclear temperature and its dependence on the source neutron-proton asymmetry deduced using the Albergo thermometer, Y. Huang, H. Zheng, R. Wada, X. Liu, W. Lin, G. Qu, M. Huang, P. Ren, J. Han, A. Bonasera, K. Hagel, M.R.D. Rodrigues, S. Kowalski, T. Keutgen, M. Barbui, and J.B. Natowitz, Phys. Rev. C **103**, 014601 (2021).

Number of constituent quark scaling of elliptic flows in high multiplicity p -Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Wenbin Zhao, Che Ming Ko, Yu-Xin Liu, Guang-You Qin and Huichao Song, in: Quark Matter 2109, Wuhan, China, Nucl. Phys. **A1005**, 121876 (2021).

Performance of position-sensitive resistive silicon detectors in the Forward Array Using Silicon Technology (FAUST), L.A. McIntosh, A.B. McIntosh, K. Hagel, M.D. Youngs, L.A. Bakhtiari, C.B. Lawrence, P. Cammarata, A. Jedelev, L.W. May, A. Zarrella, and S.J. Yennello, Nucl. Instrum. Methods Phys. Res. **A985**, 164642 (2021).

Properties of isoscalar giant multipole resonances in medium-heavy closed-shell nuclei: A semi microscopic description, M.L. Gorelik, S. Shlomo, B.A. Tulupov, and M.H. Urin, Phys. Rev. C **103**, 034302 (2021).

Proton pairing in neutron stars from chiral effective field theory, Yeunhwan Lim and Jeremy W. Holt, Phys. Rev. C **103**, 025807 (2021).

QCD critical point from the Nambu-Jona-Lasino model with a scalar-vector interaction, Kai-Jia Sun, Che Ming Ko, Shanshan Cao, and Feng Li, Phys. Rev. D **103**, 014006 (2021).

Rapid recovery of At-211 by extraction chromatography, Jonathan D. Burns, Evgeny E. Tereshatov, Geoffrey Avila, Kevin J. Glennon, Andrew Hannaman, Kylie N. Lofton, Laura A. McCann, Mallory A. McCarthy, Lauren A. McIntosh, Steven J. Schultz, Gabriel C. Tabacaru, Amy L. Vonder Haar and Sherry J. Yennello, Sep. Purif. Technol. **256**, 117794 (2021).

Recent measurements of heavy quarkonium production in Au+Au, p+Au and p+p collisions at STAR, Yanfang Liu, in: Quark Matter, Wuhan, China, Nucl. Phys. **A1005**, 121993 (2021).

Semi-classical approximation description of static properties of nuclei, S. Shlomo and A.I. Sanzhur, Mod. Phys. Lett. A **36**, 2130008 (2021).

Symmetry energy investigation with pion production from Sn + Sn systems, G. Jhang, A.B. McIntosh, and S.J. Yennello, Phys. Lett. B **813**, 136016 (2021).

The $^3\text{He} + ^5\text{He} \rightarrow \alpha + \alpha$ reaction below the Coulomb barrier via the Trojan Horse Method, C. Spitaleri, S. Typel, C.A. Bertulani, A.M. Mukhamedzhanov, T. Kajino, M. Lattuada, A. Cveticović, S. Messina, G.L. Guardo, N. Soić, M. Milin, S.S. Perrotta, Chengbo Li, P. Čolović, G. D'Agata, D. Dell'Aquila, C.G. Fatuzzo, M. Gulino, S.Q. Hou, M.La Cognata, D. Lattuada, D. Nurkić, R. Popočovski, N. Skukan, S. Szilner, O. Trippella, M. Uročić, and N. Vukman, Eur. Phys. J. A **57**, 20 (2021).

Valence states of cyclotron-produced thallium, Evgeny E. Tereshatov, Miroslava Semelová, Kateřina Čubová, Pavel Bartl, Mojmír Němec, Jan Štursa, Václav Zach, Charles M. Folden, III, Jon Petter Omtvedt and Jan John, New J. Chem. **45**, 3377 (2021).