



Sveučilište u Zagrebu
Prirodoslovno-matematički fakultet
Fizički odsjek

ZNANSTVENE PUBLIKACIJE
FIZIČKOG ODSJEKA
2022.

ZNANSTVENE PUBLIKACIJE FIZIČKOG ODSJEKA U 2022. GODINI
(Web of Science Core Collection)

1. (A Large Ion Collider Experiment Collaboration) Acharya, S. ; ...; Erhardt, Filip; ...; Gotovac, Sven ; ...; Jerčić, Marko ; ...; Karatović, David ; ...; Lončar, Petra ; ...; Mudnić, Eugen ; ...; Planinić, Mirko ; ...; Poljak, Nikola ; ...; Vicković, Linda ; ...; Zurlo, N.
Measurement of the Groomed Jet Radius and Momentum Splitting Fraction in pp and Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICAL REVIEW LETTERS. **128** (2022), 10; 102001
DOI: <https://doi.org/10.1103/PhysRevLett.128.102001>
2. (A Large Ion Collider Experiment Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Hypertriton Production in p-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICAL REVIEW LETTERS. **128** (2022), 25; 252003
DOI: <https://doi.org/10.1103/PhysRevLett.128.252003>
3. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
First study of the two-body scattering involving charm hadrons
PHYSICAL REVIEW D. **106** (2022), 5; 52010
DOI: <https://doi.org/10.1103/PhysRevD.106.052010>
4. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Production of $K^*(892)(0)$ and $\phi(1020)$ in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICAL REVIEW C. **106** (2022), 3; 034907
DOI: <https://doi.org/10.1103/PhysRevC.106.034907>
5. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Characterizing the initial conditions of heavy-ion collisions at the LHC with mean transverse momentum and anisotropic flow correlations
PHYSICS LETTERS B. **834** (2022), 137393
DOI: <https://doi.org/10.1016/j.physletb.2022.137393>
6. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
 $KS0K_S0$ and $KS0K_{\pm}$ femtoscopy in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV
PHYSICS LETTERS B. **833** (2022), 137335
DOI: <https://doi.org/10.1016/j.physletb.2022.137335>

7. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Measurement of inclusive charged-particle b-jet production in pp and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 1; 178
DOI: [https://doi.org/10.1007/JHEP01\(2022\)178](https://doi.org/10.1007/JHEP01(2022)178)
8. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Forward rapidity J/ψ production as a function of charged-particle multiplicity in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 6; 15
DOI: [https://doi.org/10.1007/JHEP06\(2022\)015](https://doi.org/10.1007/JHEP06(2022)015)
9. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Neutral to charged kaon yield fluctuations in Pb – Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
PHYSICS LETTERS B. **832** (2022); 137242
DOI: <https://doi.org/10.1016/j.physletb.2022.137242>
10. (ALICE Collaboration) Acharya, S.; ...; Erhardt, F.; ...; Gotovac, S.; ...; Jerčić, M.; ...; Karatović, D.; ...; Lončar, P.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Vicković, L.; ...; Zurlo, N.
Multiplicity dependence of charged-particle jet production in pp collisions at $\sqrt{s}=13$ TeV
EUROPEAN PHYSICAL JOURNAL C. **82** (2022), 6; 514
DOI: <https://doi.org/10.1140/epjc/s10052-022-10405-x>
11. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Production of light (anti)nuclei in pp collisions at $\sqrt{s} = 5.02$ TeV
EUROPEAN PHYSICAL JOURNAL C. **82** (2022), 4; 289
DOI: <https://doi.org/10.1140/epjc/s10052-022-10241-z>
12. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Measurement of beauty production via non-prompt D_0 mesons in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 12; 126
DOI: [https://doi.org/10.1007/JHEP12\(2022\)126](https://doi.org/10.1007/JHEP12(2022)126)

13. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Charm-quark fragmentation fractions and production cross section at midrapidity in pp collisions at the LHC
PHYSICAL REVIEW D. **105** (2022), 1; L011103
DOI: <https://doi.org/10.1103/PhysRevD.105.L011103>
14. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Measurement of Prompt D^0 , $\Lambda+c$, and $\Sigma^0, ++c(2455)$ Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV
PHYSICAL REVIEW LETTERS. **128** (2022), 1; 012001
DOI: <https://doi.org/10.1103/PhysRevLett.128.012001>
15. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Measurement of $K^*(892)^\pm$ production in inelastic pp collisions at the LHC
PHYSICS LETTERS B. **828** (2022); 137013
DOI: <https://doi.org/10.1016/j.physletb.2022.137013>
16. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Investigating the role of strangeness in baryon-antibaryon annihilation at the LHC
PHYSICS LETTERS B. **829** (2022); 137060
DOI: <https://doi.org/10.1016/j.physletb.2022.137060>
17. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Inclusive, prompt and non-prompt J/ψ production at midrapidity in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 6; 11
DOI: [https://doi.org/10.1007/JHEP06\(2022\)011](https://doi.org/10.1007/JHEP06(2022)011)
18. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Measurement of prompt D_s -meson production and azimuthal anisotropy in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICS LETTERS B. **827** (2022); 136986
DOI: <https://doi.org/10.1016/j.physletb.2022.136986>

19. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Investigating charm production and fragmentation via azimuthal correlations of prompt D mesons with charged particles in pp collisions at $\sqrt{s} = 13$ TeV
EUROPEAN PHYSICAL JOURNAL C. **82** (2022), 4; 335
DOI: <https://doi.org/10.1140/epjc/s10052-022-10267-3>
20. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Nuclear modification factor of light neutral-meson spectra up to high transverse momentum in p–Pb collisions at $\sqrt{s_{NN}}=8.16$ TeV
PHYSICS LETTERS B. **827** (2022); 136943
DOI: <https://doi.org/10.1016/j.physletb.2022.136943>
21. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Direct observation of the dead-cone effect in quantum chromodynamics
NATURE. **605** (2022), 7910; 440
DOI: <https://doi.org/10.1038/s41586-022-04572-w>
22. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Prompt D0, D+, and D*+ production in Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 1; 174
DOI: [https://doi.org/10.1007/JHEP01\(2022\)174](https://doi.org/10.1007/JHEP01(2022)174)
23. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
General balance functions of identified charged hadron pairs of (π, K, p) in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV
PHYSICS LETTERS B. **833** (2022); 137338
DOI: <https://doi.org/10.1016/j.physletb.2022.137338>
24. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Observation of a multiplicity dependence in the pT- differential charm baryon-to-meson ratios in proton- proton collisions at $\sqrt{s} = 13$ TeV
PHYSICS LETTERS B. **829** (2022); 137065
DOI: <https://doi.org/10.1016/j.physletb.2022.137065>

25. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Production of light (anti)nuclei in pp collisions at $\sqrt{s} = 13$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 1; 106
DOI: [https://doi.org/10.1007/JHEP01\(2022\)106](https://doi.org/10.1007/JHEP01(2022)106)
26. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Exploring the $N\Lambda$ – $N\Sigma$ coupled system with high precision correlation techniques at the LHC
PHYSICS LETTERS B. **833** (2022); 137272
DOI: <https://doi.org/10.1016/j.physletb.2022.137272>
27. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Production of Λ and K^0_s in jets in p–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and pp collisions at $\sqrt{s} = 7$ TeV
PHYSICS LETTERS B. **827** (2022); 136984
DOI: <https://doi.org/10.1016/j.physletb.2022.136984+I27:M27>
28. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Prompt and non-prompt J/ψ production cross sections at midrapidity in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 3; 190
DOI: [https://doi.org/10.1007/JHEP03\(2022\)190](https://doi.org/10.1007/JHEP03(2022)190)
29. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Polarization of Λ and Λ^- Hyperons along the Beam Direction in Pb-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV
PHYSICAL REVIEW LETTERS. **128** (2022), 17; 172005
DOI: <https://doi.org/10.1103/PhysRevLett.128.172005>
30. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Measurements of the groomed and ungroomed jet angularities in pp collisions at $\sqrt{s} = 5.02$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 5; 61
DOI: [https://doi.org/10.1007/JHEP05\(2022\)061](https://doi.org/10.1007/JHEP05(2022)061)

31. (ALICE Collaboration) Acharya, S.; ...; Erhardt, F.; ...; Gotovac, S.; ...; Jerčić, M.; ...; Karatović, D.; ...; Lončar, P.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Vicković, L.; ... Zurlo, N.
Measurement of anti- ^3He nuclei absorption in matter and impact on their propagation in the Galaxy
NATURE PHYSICS. **18** (2022), 12; 1-16
DOI: <https://doi.org/10.1038/s41567-022-01804-8>
32. (ALICE Collaboration) Acharya, S.; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Karatović, David; ...; Lončar, Petra; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Vicković, Linda; ...; Zurlo, N.
Study of very forward energy and its correlation with particle production at midrapidity in pp and p-Pb collisions at the LHC
JOURNAL OF HIGH ENERGY PHYSICS. **2022** (2022), 8; 86
DOI: [https://doi.org/10.1007/JHEP08\(2022\)086](https://doi.org/10.1007/JHEP08(2022)086)
33. Auconi, Andrea; Novak, Maja; Friedrich, Benjamin M.
Gradient sensing in Bayesian chemotaxis
EPL, **138** (2022), 1; 12001
DOI: <https://doi.org/10.1209/0295-5075/ac6620>
34. Barišić, N.; Sunko, D. K.
High-T-c Cuprates: a Story of Two Electronic Subsystems
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM. **35** (2022), 7; 1781 - 1799
DOI: <https://doi.org/10.1007/s10948-022-06183-y>
35. Benić, Sanjin; Garcia-Montero, Oscar; Perkov, Anton.
Isolated photon-hadron production in high energy pp and pA collisions at RHIC and LHC
PHYSICAL REVIEW D. **105** (2022), 11; 114052
DOI: <https://doi.org/10.1103/PhysRevD.105.114052>
36. Benić, Sanjin; Horvatić, Davor; Kaushik, Abhiram; Vivoda, Eric Andreas.
Odderon mechanism for transverse single spin asymmetry in the Wandzura-Wilczek approximation
PHYSICAL REVIEW D. **106** (2022), 11; 114025
DOI: <https://doi.org/10.1103/PhysRevD.106.114025>
37. Bjelčić, A.; Nikšić, T.; Drmac, Z.
Chebyshev kernel polynomial method for efficient calculation of the quasiparticle random phase approximation response function
COMPUTER PHYSICS COMMUNICATIONS. **280** (2022); 108477.
DOI: <https://doi.org/10.1016/j.cpc.2022.108477>
38. Bland, L. C.; Brash, E. J.; Crawford, H. J.; Drees, A.; Engelage, J.; Folz, C.; Judd, E.; Li, X.; Minaev, N. G.; Munroe, R. N.; Nogach, L.; Ogawa, A.; Perkins, C.; Planinić, M.; Quintero, A.; Schnell, G.; Simatović, G.; Shanmuganathan, P.; Surov, B.; Vasiliev, A. N.
Evidence for a QCD accelerator in relativistic heavy-ion collisions
PHYSICAL REVIEW C. **106** (2022), 3; 34902
DOI: <https://doi.org/10.1103/PhysRevC.106.034902>

39. Bokulić, Ana; Smolić, Ivica; Jurić, Tajron.
Constraints on singularity resolution by nonlinear electrodynamics
PHYSICAL REVIEW D. **106** (2022), 064020, 10
DOI: <https://doi.org/10.1103/PhysRevD.106.064020>
40. Bokulić, A.; Smolić, I; Jurić, T.
Nonlinear electromagnetic fields in strictly stationary spacetimes
PHYSICAL REVIEW D. **105** (2022), 2; 24067
DOI: <https://doi.org/10.1103/PhysRevD.105.024067>
41. Bonatsos, Dennis; Karakatsanis, K. E.; Martinou, Andriana; Mertzimekis, T. J.; Minkov, N.
Islands of shape coexistence from single-particle spectra in covariant density functional theory
PHYSICAL REVIEW C. **106** (2022), 4; 44323
DOI: <https://doi.org/10.1103/PhysRevC.106.044323>
42. Bonatsos, Dennis; Karakatsanis, K. E.; Martinou, Andriana; Mertzimekis, T. J.; Minkov, N.
Microscopic origin of shape coexistence in the N=90, Z=64 region
PHYSICS LETTERS B. **829** (2022); 137099
DOI: <https://doi.org/10.1016/j.physletb.2022.137099>
43. Bosnar, Damir; Makek, Mihael; Matić, Zoran.
A simple setup for the determination of the cosmic muon magnetic moment
AMERICAN JOURNAL OF PHYSICS. **90** (2022), 8, 635 – 640
DOI: <https://doi.org/10.1119/5.0077280>
44. Christy, M. E.; Gautam, T.; Ou, L.; Schmookler, B.; Wang, Y.; Adikaram, D.; Ahmed, Z.; Albataineh, H.; Ali, S. F.; Aljawrneh, B.; Allada, K.; Allison, S. L.; Alsalmi, S.; Androić, D.; Aniol, K.; Annand, J.; Arrington, J.; Atac, H.; Averett, T.; Gayoso, C. Ayerbe; Bai, X.; Bane, J.; Barcus, S.; Bartlett, K.; Bellini, V.; Beminiwattha, R.; Bericic, J.; Bhatt, H.; Bhetuwal, D.; Biswas, D.; Brash, E.; Bulumulla, D.; Camacho, C. M.; Campbell, J.; Camsonne, A.; Carmignotto, M.; Castellanos, J.; Chen, C.; Chen, J-P; Chetry, T.; Cisbani, E.; Clary, B.; Cohen, E.; Compton, N.; Cornejo, J. C.; Dusa, S. Covrig; Crowe, B.; Danagoulian, S.; Danley, T.; Deconinck, W.; Defurne, M.; Desnault, C.; Di, D.; Dlamini, M.; Duer, M.; Duran, B.; Ent, R.; Fanelli, C.; Fuchey, E.; Gal, C.; Gaskell, D.; Georges, F.; Gilad, S.; Glamazdin, O.; Gnanvo, K.; Gramolin, A., V; Gray, V. M.; Gu, C.; Habarakada, A.; Hague, T.; Hamad, G.; Hamilton, D.; Hamilton, K.; Hansen, O.; Hauenstein, F.; Hernandez, A., V; Henry, W.; Higinbotham, D. W.; Holmstrom, T.; Horn, T.; Huang, Y.; Huber, G. M.; Hyde, C.; Ibrahim, H.; Israel, N.; Jen, C-M; Jin, K.; Jones, M.; Kabir, A.; Karki, B.; Keppel, C.; Khachatryan, V.; King, P. M.; Li, S.; Li, W.; Liu, H.; Liu, J.; Liyanage, A. H.; Mack, D.; Magee, J.; Malace, S.; Mammei, J.; Markowitz, P.; Mayilyan, S.; McClellan, E.; Meddi, F.; Meekins, D.; Mesick, K.; Michaels, R.; Mkrtychyan, A.; Moffit, B.; Montgomery, R.; Myers, L. S.; Nadel-Turonski, P.; Nazeer, S. J.; Nelyubin, V; Nguyen, D.; Nuruzzaman, N.; Nycz, M.; Obrecht, R. F.; Ohanyan, K.; Palatchi, C.; Pandey, B.; Park, K.; Park, S.; Peng, C.; Persio, F. D.; Pomatsalyuk, R.; Pooser, E.; Puckett, A. J. R.; Punjabi, V; Quinn, B.; Rahman, S.; Rashad, M. N. H.; Reimer, P. E.; Riordan, S.; Roche, J.; Sapkota, I; Sarty, A.; Sawatzky, B.; Saylor, N. H.; Shabestari, M. H.; Shahinyan, A.; Sirca, S.; Smith, G. R.; Sooriyaarachchilage, S.; Sparveris, N.; Spies, R.; Stefanko, A.; Su, T.; Subedi, A.; Sulkosky, V; Sun, A.; Tan, Y.; Thorne, L.; Ton, N.; Tortorici, F.; Trotta, R.; Uniyal, R.; Urciuoli, G. M.; Voutier, E.;

- Waidyawansa, B.; Wojtsekhowski, B.; Wood, S.; Yan, X.; Ye, L.; Ye, Z. H.; Yero, C.; Zhang, J.; Zhao, Y. X.; Zhu, P.
Form Factors and Two-Photon Exchange in High-Energy Elastic Electron-Proton Scattering
PHYSICAL REVIEW LETTERS. **128** (2022), 10; 102002
DOI: <https://doi.org/10.1103/PhysRevLett.128.102002>
45. (CREX Collaboration) Adhikari, D.; Albataineh, H.; Androić, D.; Aniol, K. A.; Armstrong, D. S.; Averett, T.; Gayoso, C. Ayerbe; Barcus, S. K.; Bellini, V.; Beminiwattha, R. S.; Benesch, J. F.; Bhatt, H.; Pathak, D. Bhatta; Bhetuwal, D.; Blaikie, B.; Boyd, J.; Campagna, Q.; Camsonne, A.; Cates, G. D.; Chen, Y.; Clarke, C.; Cornejo, J. C.; Dusa, S. Covrig; Dalton, M. M.; Datta, P.; Deshpande, A.; Dutta, D.; Feldman, C.; Fuchey, E.; Gal, C.; Gaskell, D.; Gautam, T.; Gericke, M.; Ghosh, C.; Halilovic, I.; Hansen, J-O; Hassan, O.; Hauenstein, F.; Henry, W.; Horowitz, C. J.; Jantzi, C.; Jian, S.; Johnston, S.; Jones, D. C.; Kakkar, S.; Katugampola, S.; Keppel, C.; King, P. M.; King, D. E.; Kumar, K. S.; Kutz, T.; Lashley-Colthirst, N.; Leverick, G.; Liu, H.; Liyanage, N.; Mammei, J.; Mammei, R.; McCaughan, M.; McNulty, D.; Meekins, D.; Metts, C.; Michaels, R.; Mihovilovic, M.; Mondal, M. M.; Napolitano, J.; Narayan, A.; Nikolaev, D.; Owen, V.; Palatchi, C.; Pan, J.; Pandey, B.; Park, S.; Paschke, K. D.; Petrusky, M.; Pitt, M. L.; Premathilake, S.; Quinn, B.; Radloff, R.; Rahman, S.; Rashad, M. N. H.; Rathnayake, A.; Reed, B. T.; Reimer, P. E.; Richards, R.; Riordan, S.; Roblin, Y. R.; Seeds, S.; Shahinyan, A.; Souder, P.; Thiel, M.; Tian, Y.; Urciuoli, G. M.; Wertz, E. W.; Wojtsekhowski, B.; Yale, B.; Ye, T.; Yoon, A.; Xiong, W.; Zec, A.; Zhang, W.; Zhang, J.; Zheng, X.
Precision Determination of the Neutral Weak Form Factor of Ca-48
PHYSICAL REVIEW LETTERS. **129** (2022), 4; 42501
DOI: <https://doi.org/10.1103/PhysRevLett.129.042501>
46. Delvecchio, I.; Daddi, E.; Sargent, M. T.; Aird, J.; Mullaney, J. R.; Magnelli, B.; Elbaz, D.; Bisigello, L.; Ceraj, L.; Jin, S.; Kalita, B. S.; Liu, D.; Novak, M.; Prandoni, I.; Radcliffe, J. F.; Spingola, C.; Zamorani, G.; Allevalo, V.; Rodighiero, G.; Smolčić, V.
A super-linear 'radio-AGN main sequence' links mean radio-AGN power and galaxy stellar mass since $z \sim 3$
ASTRONOMY & ASTROPHYSICS. **668** (2022); A81
DOI: <https://doi.org/10.1051/0004-6361/202244639>
47. Donahue, Mary J.; Ejneby, Malin Silvera; Jakesova, Marie; Caravaca, April S.; Andersson, Gabriel; Sahalianov, Ihor; Derek, Vedran; Hult, Henrik; Olofsson, Peder S.; Glowacki, Eric Daniel.
Wireless optoelectronic devices for vagus nerve stimulation in mice
JOURNAL OF NEURAL ENGINEERING. **19** (2022), 6; 66031
DOI: <https://doi.org/10.1088/1741-2552/aca1e3>
48. Eraković, Mihael; Cvitaš, Marko T.
Vibrational Tunneling Spectra of Molecules with Asymmetric Wells: A Combined Vibrational Configuration Interaction and Instanton Approach
JOURNAL OF CHEMICAL THEORY AND COMPUTATION. **18** (2022), 5, 2785 – 2802
DOI: <https://doi.org/10.1021/acs.jctc.2c00124>
49. Esmaylzadeh, A.; Blazhev, A.; Nomura, K.; Jolie, J.; Beckers, M.; Fransen, C.; Gerst, R. - B.; Harter, A.; Karayonchev, V.; Knafila, L.; Ley, M.; von Spee, F.
Investigation of gamma softness: Lifetime measurements in $^{104,106}\text{Ru}$
PHYSICAL REVIEW C. **106** (2022), 6; 64323
DOI: <https://doi.org/10.1103/PhysRevC.106.064323>

50. Foucaud, Mallaurie; Renka, Sanja; Klaser, Teodoro; Popović, Jasminka; Skoko, Željko; Mosner, Petr; Koudelka, Ladislav; Šantić, Ana.
Sodium-Ion Conductivity and Humidity-Sensing Properties of Na₂O-MoO₃-P₂O₅ Glass-Ceramics
NANOMATERIALS. **12** (2022), 2; 240
DOI: <https://doi.org/10.3390/nano12020240>
51. Garg, Nitish Kumar; Goriya, Yogesh; Manojveer, Seetharaman; Muratovic, Senada; Pajić, Damir; Cetina, Mario; Petreska, Irina; Krupskaya, Yulia; Kataev, Vladislav; Johnson, Magnus T.; Wendt, Ola F.; Žilic, Dijana.
A mononuclear iron(III) complex with unusual changes of color and magneto-structural properties with temperature: synthesis, structure, magnetization, multi-frequency ESR and DFT study
DALTON TRANSACTIONS. **51** (2022), 6, 2338 – 2345
DOI: <https://doi.org/10.1039/d1dt03751j>
52. Gaulme, Patrick; Borkovits, Tamas; Appourchaux, Thierry; Pavlovski, Krešimir; Spada, Federico; Gehan, Charlotte; Ong, Joel; Miglio, Andrea; Tkachenko, Andrew; Mosser, Benoit; Vrand, Mathieu; Benbakoura, Mansour; Drew Chojnowski, Stephen; Perkins, Jean; Hedlund, Anne; Jackiewicz, Jason.
KIC 7955301: A hierarchical triple system with eclipse timing variations and an oscillating red giant
ASTRONOMY & ASTROPHYSICS. **668** (2022); A173
DOI: <https://doi.org/10.1051/0004-6361/202244373>
53. Gerst, R-B; Blazhev, A.; Moschner, K.; Doornenbal, P.; Obertelli, A.; Nomura, K.; Ebran, J-P; Hilaire, S.; Libert, J.; Authalet, G.; Baba, H.; Calvet, D.; Chateau, F.; Chen, S.; Corsi, A.; Delbart, A.; Gheller, J-M; Giganon, A.; Gillibert, A.; Lapoux, V.; Motobayashi, T.; Niikura, M.; Paul, N.; Rousse, J-Y; Sakurai, H.; Santamaria, C.; Steppenbeck, D.; Taniuchi, R.; Uesaka, T.; Ando, T.; Arici, T.; Browne, F.; Bruce, A. M.; Carroll, R.; Chung, L. X.; Cortes, M. L.; Dewald, M.; Ding, B.; Flavigny, F.; Franchoo, S.; Gorska, M.; Gottardo, A.; Jolie, J.; Jungclaus, A.; Lee, J.; Lettmann, M.; Linh, B. D.; Liu, J.; Liu, Z.; Lizarazo, C.; Momiyama, S.; Nagamine, S.; Nakatsuka, N.; Nita, C. R.; Nobs, C.; Olivier, L.; Orlandi, R.; Patel, Z.; Podolyak, Zs; Rudigier, M.; Saito, T.; Shand, C.; Soderstrom, P-A; Stefan, I; Vaquero, V.; Werner, V; Wimmer, K.; Xu, Z.
γ-ray spectroscopy of low-lying yrast and non-yrast states in neutron-rich 94,95,96Kr
PHYSICAL REVIEW C. **105** (2022), 2; 24302
DOI: <https://doi.org/10.1103/PhysRevC.105.024302>
54. Ghosh, Debsuvra; Ghosh, Subhadip; Chaudhuri, Abhishek.
Deconstructing the role of myosin contractility in force fluctuations within focal adhesions
BIOPHYSICAL JOURNAL. **121** (2022), 9, 1753 – 1764
DOI: <https://doi.org/10.1016/j.bpj.2022.03.025>
55. Giraud, S.; Zegers, R. G. T.; Brown, B. A.; Gabler, J-M; Lesniak, J.; Rebenstock, J.; Ney, E. M.; Engel, J.; Ravlic, A.; Paar, N.
Finite-temperature electron-capture rates for neutron-rich nuclei near N=50 and effects on core-collapse supernova simulations
PHYSICAL REVIEW C. **105** (2022), 5; 55801
DOI: <https://doi.org/10.1103/PhysRevC.105.055801>

56. Glunčić, Matko; Vlahović, Ines; Mršić, Leo; Paar, Vladimir.
Global Repeat Map (GRM) Application: Finding All DNA Tandem Repeat Units
ALGORITHMS. **15** (2022), 12; 458
DOI: <https://doi.org/10.3390/a15120458>
57. Glunčić, Matko; Vlahović, Ines; Rosandić, Marija; Paar, Vladimir.
Tandemly repeated NBPF HOR copies (Olduvai triplets): Possible impact on human brain evolution
LIFE SCIENCE ALLIANCE. **6** (2022), 1; e202101306
DOI: <https://doi.org/10.26508/lsa.202101306>
58. Grbić, Mihael S.; O'Farrell, Eoin C. T.; Matsumoto, Yosuke; Kuga, Kentaro; Brando, Manuel; Kuchler, Robert; Nevidomskyy, Andriy H.; Yoshida, Makoto; Sakakibara, Toshiro; Kono, Yohei; Shimura, Yasuyuki; Sutherland, Michael L.; Takigawa, Masashi; Nakatsuji, Satoru.
Anisotropy-driven quantum criticality in an intermediate valence system
NATURE COMMUNICATIONS. **13** (2022), 1; 2141
DOI: <https://doi.org/10.1038/s41467-022-29757-9>
59. Gudac, Bruno; Kriener, Markus; Sharlai, Yuriy, V; Bosnar, Mihovil; Orbančić, Filip; Mikitik, Grigorii P.; Kimura, Akio; Kokanović, Ivan; Novak, Mario.
Nodal-line driven anomalous susceptibility in ZrSiS
PHYSICAL REVIEW B. **105** (2022), 24; L241115
DOI: <https://doi.org/10.1103/PhysRevB.105.L241115>
60. (Hall A Collaboration) Pandey, B.; Tang, L.; Gogami, T.; Suzuki, K. N.; Itabashi, K.; Nagao, S.; Okuyama, K.; Nakamura, S. N.; Abrams, D.; Afnan, I. R.; Akiyama, T.; Androić, D.; Aniol, K.; Averett, T.; Gayoso, C. Ayerbe; Bane, J.; Barcus, S.; Barrow, J.; Bellini, V.; Bhatt, H.; Bhetuwal, D.; Biswas, D.; Camsonne, A.; Castellanos, J.; Chen, J-P.; Chen, J.; Covrig, S.; Chrisman, D.; Cruz-Torres, R.; Das, R.; Fuchey, E.; Gal, C.; Gibson, B. F.; Gnanvo, K.; Garibaldi, F.; Gautam, T.; Gomez, J.; Gueye, P.; Hague, T. J.; Hansen, O.; Henry, W.; Hauenstein, F.; Higinbotham, D. W.; Hyde, C.; Kaneta, M.; Keppel, C.; Kutz, T.; Lashley-Colthirst, N.; Li, S.; Liu, H.; Mammei, J.; Markowitz, P.; McClellan, R. E.; Meddi, F.; Meekins, D.; Michaels, R.; Mihovilovic, M.; Moyer, A.; Nguyen, D.; Nycz, M.; Owen, V.; Palatchi, C.; Park, S.; Petkovic, T.; Premathilake, S.; Reimer, P. E.; Reinhold, J.; Riordan, S.; Rodriguez, V.; Samanta, C.; Santiesteban, S. N.; Sawatzky, B.; Sirca, S.; Slifer, K.; Su, T.; Tian, Y.; Toyama, Y.; Uehara, K.; Urciuoli, G. M.; Votaw, D.; Williamson, J.; Wojtsekhowski, B.; Wood, S.; Yale, B.; Ye, Z.; Zhang, J.; Zheng, X.
Spectroscopic study of a possible Lambda nn resonance and a pair of Sigma NN states using the (e, e' K+) reaction with a tritium target
PHYSICAL REVIEW C. **105** (2022), 5; L051001
DOI: <https://doi.org/10.1103/PhysRevC.105.L051001>
61. Hingu, Akash; Soni, Bhargav; Parashari, Siddharth; Makwana, Rajnikant; Prajapati, P. M.; Vashi, Vibhuti; Mehta, Mayur; Palit, R.; Suryanarayana, S. V.; Nayak, B. K.; Katovsky, K.; Mukherjee, S.
Cross-sections for production of ^{115m}In by quasi-monoenergetic neutrons within 7-20 MeV
RADIATION PHYSICS AND CHEMISTRY. **199** (2022); 110270
DOI: <https://doi.org/10.1016/j.radphyschem.2022.110270>

62. Ivanjek, L.; Klein, P.; Geyer, M. -a.; Kuechemann, S.; Jeličić, K.; Dahlkemper, M. N.; Sušac, A.
Studying physics during the COVID-19 pandemic: Student perceptions on synchronous and asynchronous course formats and implications for the future
PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH. **18** (2022), 2; 20149
DOI: <https://doi.org/10.1103/PhysRevPhysEducRes.18.020149>
63. Jakovac, Marko; Klaser, Teodoro; Bafti, Arijeta; Skoko, Željko; Pavić, Luka; Zic, Mark.
The Effect of Y3+ Addition on Morphology, Structure, and Electrical Properties of Yttria-Stabilized Tetragonal Zirconia Dental Materials
MATERIALS. **15** (2022), 5; 1800
DOI: <https://doi.org/10.3390/ma15051800>
64. (Jefferson Lab Hall A Collaboration) Georges, F.; Rashad, M. N. H.; Stefanko, A.; Dlamini, M.; Karki, B.; Ali, S. F.; Lin, P.-J.; Ko, H.-S.; Israel, N.; Adikaram, D.; Ahmed, Z.; Albataineh, H.; Aljawrneh, B.; Allada, K.; Allison, S.; Alsalmi, S.; Androić, D.; Aniol, K.; Annand, J.; Atac, H.; Averett, T.; Gayoso, C. Ayerbe; Bai, X.; Bane, J.; Barcus, S.; Bartlett, K.; Bellini, V.; Beminiwaththa, R.; Bericic, J.; Biswas, D.; Brash, E.; Bulumulla, D.; Campbell, J.; Camsonne, A.; Carmignotto, M.; Castellano, J.; Chen, C.; Chen, J.-p.; Chetry, T.; Christy, M. E.; Cisbani, E.; Clary, B.; Cohen, E.; Compton, N.; Cornejo, J. C.; Dusa, S. Covrig; Crowe, B.; Danagoulian, S.; Danley, T.; De Persio, F.; Deconinck, W.; Defurne, M.; Desnault, C.; Di, D.; Duer, M.; Duran, B.; Ent, R.; Fanelli, C.; Franklin, G.; Fuchey, E.; Gal, C.; Gaskell, D.; Gautam, T.; Glamazdin, O.; Gnanvo, K.; Gray, V. M.; Gu, C.; Hague, T.; Hamad, G.; Hamilton, D.; Hamilton, K.; Hansen, O.; Hauenstein, F.; Henry, W.; Higinbotham, D. W.; Holmstrom, T.; Horn, T.; Huang, Y.; Huber, G. M.; Hyde, C. E.; Ibrahim, H.; Jen, C.-M.; Jin, K.; Jones, M.; Kabir, A.; Keppel, C.; Khachatryan, V.; King, P. M.; Li, S.; Li, W. B.; Liu, J.; Liu, H.; Liyanage, A.; Magee, J.; Malace, S.; Mammei, J.; Markowitz, P.; McClellan, E.; Mazouz, M.; Meddi, F.; Meekins, D.; Mesik, K.; Michaels, R.; Mkrtchyan, A.; Montgomery, R.; Camacho, C. Munoz; Myers, L. S.; Nadel-Turonski, P.; Nazeer, S. J.; Nelyubin, V.; Nguyen, D.; Nycz, M.; Obretch, O. F.; Ou, L.; Palatchi, C.; Pandey, B.; Park, S.; Park, K.; Peng, C.; Pomatsalyuk, R.; Puckett, A. J. R.; Punjabi, V.; Quinn, B.; Rahman, S.; Reimer, P. E.; Roche, J.; Sapkota, I.; Sarty, A.; Sawatzky, B.; Saylor, N. H.; Schmookler, B.; Shabestari, M. H.; Shahinyan, A.; Sirca, S.; Smith, G. R.; Sooriyaarachchilage, S.; Sparveris, N.; Spies, R.; Su, T.; Subedi, A.; Sulkosky, V.; Sun, A.; Thorne, L.; Tian, Y.; Ton, N.; Tortorici, F.; Trotta, R.; Urciuoli, G. M.; Voutier, E.; Waidyawansa, B.; Wang, Y.; Wojtsekhowski, B.; Wood, S.; Yan, X.; Ye, L.; Ye, Z.; Yero, C.; Zhang, J.; Zhao, Y.; Zhu, P.
Deeply Virtual Compton Scattering Cross Section at High Bjorken $x(B)$
PHYSICAL REVIEW LETTERS. **128** (2022), 25; 252002
DOI: <https://doi.org/10.1103/PhysRevLett.128.252002>

65. (Jefferson Lab Hall Tritium Collaboration) Abrams, D.; Albataineh, H.; Aljawrneh, B. S.; Alsalmi, S.; Androić, D.; Aniol, K.; Armstrong, W.; Arrington, J.; Atac, H.; Averett, T.; Gayoso, C. Ayerbe; Bai, X.; Bane, J.; Barcus, S.; Beck, A.; Bellini, V.; Bhatt, H.; Bhetuwal, D.; Biswas, D.; Blyth, D.; Boeglin, W.; Bulumulla, D.; Butler, J.; Camsonne, A.; Carmignotto, M.; Castellanos, J.; Chen, J-P; Cohen, E. O.; Covrig, S.; Craycraft, K.; Cruz-Torres, R.; Dongwi, B.; Duran, B.; Dutta, D.; Fuchey, E.; Gal, C.; Gautam, T. N.; Gilad, S.; Gnanvo, K.; Gogami, T.; Gomez, J.; Gu, C.; Habarakada, A.; Hague, T.; Hansen, J-O; Hattawy, M.; Hauenstein, F.; Higinbotham, D. W.; Holt, R. J.; Hughes, E. W.; Hyde, C.; Ibrahim, H.; Jian, S.; Joosten, S.; Karki, A.; Karki, B.; Katramatou, A. T.; Keith, C.; Keppel, C.; Khachatryan, M.; Khachatryan, V.; Khanal, A.; Kievsky, A.; King, D.; King, P. M.; Korover, I.; Kulagin, S. A.; Kumar, K. S.; Kutz, T.; Lashley-Colthirst, N.; Li, S.; Li, W.; Liu, H.; Liuti, S.; Liyanage, N.; Markowitz, P.; McClellan, R. E.; Meekins, D.; Beck, S. Mey-Tal; Meziani, Z-E; Michaels, R.; Mihovilovic, M.; Nelyubin, V; Nguyen, D.; Nuruzzaman; Nycz, M.; Obrecht, R.; Olson, M.; Owen, V. F.; Pace, E.; Pandey, B.; Pandey, V; Paolone, M.; Papadopoulou, A.; Park, S.; Paul, S.; Petratos, G. G.; Petti, R.; Piasetzky, E.; Pomatsalyuk, R.; Premathilake, S.; Puckett, A. J. R.; Punjabi, V; Ransome, R. D.; Rashad, M. N. H.; Reimer, P. E.; Riordan, S.; Roche, J.; Salme, G.; Santiesteban, N.; Sawatzky, B.; Scopetta, S.; Schmidt, A.; Schmoekler, B.; Segal, J.; Segarra, E. P.; Shahinyan, A.; Sirca, S.; Sparveris, N.; Su, T.; Suleiman, R.; Szumila-Vance, H.; Tadepalli, A. S.; Tang, L.; Tireman, W.; Tortorici, F.; Urciuoli, G. M.; Wojtsekhowski, B.; Wood, S.; Ye, Z. H.; Ye, Z. Y.; Zhang, J.
Measurement of the Nucleon F_2/F_1 Structure Function Ratio by the Jefferson Lab MARATHON Tritium/Helium-3 Deep Inelastic Scattering Experiment
PHYSICAL REVIEW LETTERS. **128** (2022), 13; 132003
DOI: <https://doi.org/10.1103/PhysRevLett.128.132003>
66. Jeličić, K.; Geyer, M-A; Ivanjek, L.; Klein, P.; Kuechemann, S.; Dahlkemper, M. N.; Sušac, A.
Lab courses for prospective physics teachers: what could we learn from the first COVID-19 lockdown?
EUROPEAN JOURNAL OF PHYSICS. **43** (2022), 5; 55701
DOI: <https://doi.org/10.1088/1361-6404/ac6ea1>
67. Jerčić, Marko; Jerčić, Ivan; Poljak, Nikola
Introduction and Analysis of a Method for the Investigation of QCD-like Tree Data
ENTROPY. **24** (2022), 1; 104
DOI: <https://doi.org/10.3390/e24010104>

68. (J-PARC E62 Collaboration) Hashimoto, T.; Aikawa, S.; Akaishi, T.; Asano, H.; Bazzi, M.; Bennett, D. A.; Berger, M.; Bosnar, D.; Butt, A. D.; Curceanu, C.; Doriese, W. B.; Durkin, M. S.; Ezoe, Y.; Fowler, J. W.; Fujioka, H.; Gard, J. D.; Guaraldo, C.; Gustafsson, F. P.; Han, C.; Hayakawa, R.; Hayano, R. S.; Hayashi, T.; Hays-Wehle, J. P.; Hilton, G. C.; Hiraiwa, T.; Hiromoto, M.; Ichinohe, Y.; Iio, M.; Iizawa, Y.; Iliescu, M.; Ishimoto, S.; Ishisaki, Y.; Itahashi, K.; Iwasaki, M.; Ma, Y.; Murakami, T.; Nagatomi, R.; Nishi, T.; Noda, H.; Noumi, H.; Nunomura, K.; O'Neil, G. C.; Ohashi, T.; Ohnishi, H.; Okada, S.; Outa, H.; Piscicchia, K.; Reintsema, C. D.; Sada, Y.; Sakuma, F.; Sato, M.; Schmidt, D. R.; Scordo, A.; Sekimoto, M.; Shi, H.; Shirotori, K.; Sirghi, D.; Sirghi, F.; Suzuki, K.; Swetz, D. S.; Takamine, A.; Tanida, K.; Tatsuno, H.; Trippel, C.; Uhlig, J.; Ullom, J. N.; Yamada, S.; Yamaga, T.; Yamazaki, T.; Zmeskal, J.
Measurements of Strong-Interaction Effects in Kaonic-Helium Isotopes at Sub-eV Precision with X-Ray Microcalorimeters
PHYSICAL REVIEW LETTERS. **128** (2022), 11; 112503
DOI: <https://doi.org/10.1103/PhysRevLett.128.112503>
69. Karakatsanis, K. E.; Nomura, K.
Signatures of shape phase transitions in krypton isotopes based on relativistic energy density functionals
PHYSICAL REVIEW C. **105** (2022), 6; 64310
DOI: <https://doi.org/10.1103/PhysRevC.105.064310>
70. Keran, Barbara; Grozić, Petra; Kadigrobov, Anatoly M.; Rukelj, Zoran; Radić, Danko.
DC Transport and Magnetotransport Properties of the 2D Isotropic Metallic System with the Fermi Surface Reconstructed by the Charge Density Wave
CONDENSED MATTER. **7** (2022), 4; 73
DOI: <https://doi.org/10.3390/condmat7040073>
71. Klaser, Teodoro; Balen, Luka; Skoko, Željko; Pavić, Luka; Šantić, Ana.
Polylactic Acid-Glass Fiber Composites: Structural, Thermal, and Electrical Properties
POLYMERS. **14** (2022), 19; 4012
DOI: <https://doi.org/10.3390/polym14194012>
72. Kojčinović, Jelena; Sahu, Manisha; Hajra, Sugato; Tatar, Dalibor; Klaser, Teodoro; Skoko, Željko; Jaglicic, Zvonko; Sadrollahi, Elaheh; Litterst, Fred Jochen; Kim, Hoe Joon; Djerdj, Igor.
Nanocrystalline triple perovskite compounds $A_3Fe_2BO_9$ ($A = Sr, Ba$; $B = W, Te$) with ferromagnetic and dielectric properties for triboelectric energy harvesting
MATERIALS CHEMISTRY FRONTIERS. **6** (2022), 9, 1116 - 1128
DOI: <https://doi.org/10.1039/d1qm01565f>
73. Kolar, Petar; Blažok, Lovro; Bojanjac, Dario.
Noise model of the cryogenic nuclear magnetic resonance spectroscopy system's receiving chain
AUTOMATIKA. **63** (2022), 3, 474 - 481
DOI: <https://doi.org/10.1080/00051144.2022.2052649>

74. Kolar, T.; Paul, S. J.; Achenbach, P.; Arenhoevel, H.; Ashkenazi, A.; Beričić, J.; Boehm, R.; Bosnar, D.; Brecelj, T.; Cline, E.; Cohen, E. O.; Distler, M. O.; Esser, A.; Friščić, I.; Gilman, R.; Giusti, C.; Heilig, M.; Hoek, M.; Izraeli, D.; Kegel, S.; Klag, P.; Korover, I.; Lichtenstadt, J.; Mardor, I.; Merkel, H.; Middleton, D. G.; Mihovilović, M.; Mueller, J.; Mueller, U.; Olivenboim, M.; Piasetzky, E.; Pochodzalla, J.; Ron, G.; Schlimme, B. S.; Schoth, M.; Schulz, F.; Sfienti, C.; Sirca, S.; Spreckels, R.; Stajner, S.; Stoettinger, Y.; Strauch, S.; Thiel, M.; Tyukin, A.; Weber, A.; Yaron, I.
Measurements of the electron-helicity asymmetry in the quasi-elastic $A(e, e' p)$ process
PHYSICS LETTERS B. **824** (2022); 136798
DOI: <https://doi.org/10.1016/j.physletb.2021.136798>
75. Komis, Ioannis; Kaltsas, Dimitrios; Xia, Shiqi; Buljan, Hrvoje; Chen, Zhigang; Makris, Konstantinos G.
Robustness versus sensitivity in non-Hermitian topological lattices probed by pseudospectra
PHYSICAL REVIEW RESEARCH. **4** (2022), 4; 43219
DOI: <https://doi.org/10.1103/PhysRevResearch.4.043219>
76. Kucuksucu, Sema; Yigit, Mustafa; Paar, Nils.
Statistical Hauser-Feshbach Model Description of (n, α) Reaction Cross Sections for the Weak s -Process
UNIVERSE. **8** (2022), 1; 25
DOI: <https://doi.org/10.3390/universe8010025>
77. Li, S.; Cruz-Torres, R.; Santiesteban, N.; Ye, Z. H.; Abrams, D.; Alsalmi, S.; Androić, D.; Aniol, K.; Arrington, J.; Averett, T.; Gayoso, C. Ayerbe; Bane, J.; Barcus, S.; Barrow, J.; Beck, A.; Bellini, V.; Bhatt, H.; Bhetuwal, D.; Biswas, D.; Bulumulla, D.; Camsonne, A.; Castellanos, J.; Chen, J.; Chen, J-P; Chrisman, D.; Christy, M. E.; Clarke, C.; Covrig, S.; Craycraft, K.; Day, D.; Dutta, D.; Fuchey, E.; Gal, C.; Garibaldi, F.; Gautam, T. N.; Gogami, T.; Gomez, J.; Gueye, P.; Habarakada, A.; Hague, T. J.; Hansen, J. O.; Hauenstein, F.; Henry, W.; Higinbotham, D. W.; Holt, R. J.; Hyde, C.; Itabashi, T.; Kaneta, M.; Karki, A.; Katramatou, A. T.; Keppel, C. E.; Khachatryan, M.; Khachatryan, V; King, P. M.; Korover, I; Kurbany, L.; Kutz, T.; Lashley-Colthirst, N.; Li, W. B.; Liu, H.; Liyanage, N.; Long, E.; Mammei, J.; Markowitz, P.; McClellan, R. E.; Meddi, F.; Meekins, D.; Beck, S. Mey-Tal; Michaels, R.; Mihovilovic, M.; Moyer, A.; Nagao, S.; Nelyubin, V; Nguyen, D.; Nycz, M.; Olson, M.; Ou, L.; Owen, V; Palatchi, C.; Pandey, B.; Papadopoulou, A.; Park, S.; Paul, S.; Petkovic, T.; Pomatsalyuk, R.; Premathilake, S.; Punjabi, V; Ransome, R. D.; Reimer, P. E.; Reinhold, J.; Riordan, S.; Roche, J.; Rodriguez, V. M.; Schmidt, A.; Schmookler, B.; Segarra, E. P.; Shahinyan, A.; Slifer, K.; Solvignon, P.; Sirca, S.; Su, T.; Suleiman, R.; Szumila-Vance, H.; Tang, L.; Tian, Y.; Tireman, W.; Tortorici, F.; Toyama, Y.; Uehara, K.; Urciuoli, G. M.; Votaw, D.; Williamson, J.; Wojtsekhowski, B.; Wood, S.; Zhang, J.; Zheng, X.
Revealing the short-range structure of the mirror nuclei H-3 and He-3
NATURE. **609** (2022), 7925, 41
DOI: <https://doi.org/10.1038/s41586-022-05007-2>

78. Maheshwari, Bhoomika; Nomura, Kosuke.
Overview of Seniority Isomers
SYMMETRY-BASEL. **14** (2022), 12; 2680
DOI: <https://doi.org/10.3390/sym14122680>
79. Majer, Marija; Ambrožova, Iva; Davidkova, Marie; De Saint-Hubert, Marijke; Kasabašić, Mladen; Knežević, Željka; Kopec, Renata; Krzempek, Dawid; Krzempek, Katarzyna; Miljanić, Saveta; Mojzeszek, Natalia; Veršić, Ivan; Stolarczyk, Liliana; Harrison, Roger M.; Olko, Pawel.
Out-of-field doses in pediatric craniospinal irradiations with 3D-CRT, VMAT, and scanning proton radiotherapy: A phantom study
MEDICAL PHYSICS. **49** (2022), 4, 2672 – 2683
DOI: <https://doi.org/10.1002/mp.15493>
80. Marević, P.; Schunck, N.; Ney, E. M.; Perez, R. Navarro; Verriere, M.; O'Neal, J.
Axially-deformed solution of the Skyrme-Hartree-Fock-Bogoliubov equations using the transformed harmonic oscillator basis (IV) HFBTHO (v4.0): A new version of the program
COMPUTER PHYSICS COMMUNICATIONS. **276** (2022); 108367
DOI: <https://doi.org/10.1016/j.cpc.2022.108367>
81. Marić, Vanja; Torre, Gianpaolo; Franchini, Fabio; Giampaolo, Salvatore Marco.
Topological Frustration can modify the nature of a Quantum Phase Transition
SCIPOST PHYSICS. **12** (2022), 2; 75
DOI: <https://doi.org/10.21468/SciPostPhys.12.2.075>
82. Matejak Cvenić, Karolina; Planinić, Maja; Sušac, Ana; Ivanjek, Lana; Jeličić, Katarina; Hopf, Martin.
Development and validation of the Conceptual Survey on Wave Optics
PHYSICAL REVIEW PHYSICS EDUCATION RESEARCH. **18** (2022), 1; 10103
DOI: <https://doi.org/10.1103/PhysRevPhysEducRes.18.010103>
83. (n_TOF Collaboration) Mastromarco, M.; Amaducci, S.; Colonna, N.; Finocchiaro, P.; Cosentino, L.; Barbagallo, M.; Aberle, O.; Andrzejewski, J.; Audouin, L.; Bacak, M.; Balibrea, J.; Becvar, F.; Berthoumieux, E.; Billowes, J.; Bosnar, D.; Brown, A.; Caamano, M.; Calvino, F.; Calviani, M.; Cano-Ott, D.; Cardella, R.; Casanovas, A.; Cerutti, F.; Chen, Y. H.; Chiaveri, E.; Cortes, G.; Cortes-Giraldo, M. A.; Damone, L. A.; Diakaki, M.; Domingo-Pardo, C.; Diacono, D.; Dressler, R.; Dupont, E.; Duran, I.; Fernandez-Dominguez, B.; Ferrari, A.; Ferreira, P.; Furman, V.; Goebel, K.; Garcia, A. R.; Gawlik, A.; Gilardoni, S.; Glodariu, T.; Goncalves, I. F.; Gonzalez-Romero, E.; Griesmayer, E.; Guerrero, C.; Günsing, F.; Harada, H.; Heinitz, S.; Heyse, J.; Jenkins, D. G.; Jericha, E.; Kaepfeler, F.; Kadi, Y.; Kalamara, A.; Kavargin, P.; Kimura, A.; Kivel, N.; Knapova, I.; Kokkoris, M.; Krticka, M.; Kurtulgil, D.; Leal-Cidoncha, E.; Lederer, C.; Leeb, H.; Lerendegui-Marco, J.; LoMeo, S.; Lonsdale, S. J.; Macina, D.; Manna, A.; Marganec, J.; Martinez, T.; Masi, A.; Massimi, C.; Mastinu, P.; Mauger, E. A.; Mazzone, A.; Mendoza, E.; Mengoni, A.; Milazzo, P. M.; Mingrone, F.; Musumarra, A.; Negret, A.; Nolte, R.; Oprea, A.; Patronis, N.; Pavlik, A.; Perkowski, J.; Porras, I.; Praena, J.; Quesada, J. M.; Radeck, D.; Rauscher, T.; Reifarth, R.; Rubbia, C.; Ryan, J. A.; Sabate-Gilarte, M.; Saxena, A.; Schillebeeckx, P.; Schumann, D.; Sedyshev, P.; Smith, A. G.; Sosnin, N.; Stamatopoulos, A.; Tagliente, G.; Tain, J. L.; Tarifeno-Saldivia, A.; Tassan-Got, L.; Valenta, S.; Vannini, G.; Variale, V.; Vaz, P.; Ventura,

- A.; Vlachoudis, V.; Vlastou, R.; Wallner, A.; Warren, S.; Weiss, C.; Woods, P. J.; Wright, T.; Žugec, P.
High accuracy, high resolution $^{235}\text{U}(n,f)$ cross section from n_TOF (CERN) from 18 meV to 10 keV
EUROPEAN PHYSICAL JOURNAL A. **58** (2022), 8; 147
DOI: <https://doi.org/10.1140/epja/s10050-022-00779-7>
84. Matković, Jurica; Ghosh, Subhadip; Ćosić, Mateja; Eibes, Susana; Barišić, Marin; Pavin, Nenad; Tolić, Iva M.
Kinetochore- and chromosome-driven transition of microtubules into bundles promotes spindle assembly
NATURE COMMUNICATIONS. **13** (2022), 1; 7307
DOI: <https://doi.org/10.1038/s41467-022-34957-4>
85. Mercier, F.; Zhao, J.; Ebran, J-P; Khan, E.; Nikšić, T.; Vretenar, D.
Microscopic Description of 2α Decay in ^{212}Po and ^{224}Ra Isotopes
NUOVO CIMENTO C-COLLOQUIA AND COMMUNICATIONS IN PHYSICS. **45** (2022), 3; 59
DOI: <https://doi.org/10.1393/ncc/i2022-22059-x>
86. Miliucci, M.; Iliescu, M.; Sgaramella, F.; Bazzi, M.; Bosnar, D.; Bragadireanu, M.; Carminati, M.; Cargnelli, M.; Clozza, A.; Curceanu, C.; Deda, G.; De Paolis, L.; Del Grande, R.; Fiorini, C.; Guaraldo, C.; Iwasaki, M.; King, P.; Sandri, P. Levi; Marton, J.; Moskal, P.; Napolitano, F.; Niedzwiecki, S.; Piscicchia, K.; Scordo, A.; Shi, H.; Silarski, M.; Sirghi, D.; Sirghi, F.; Skurzok, M.; Spallone, A.; Tuechler, M.; Doce, O. Vazquez; Zmeskal, J.
Large area silicon drift detectors system for high precision timed x-ray spectroscopy
MEASUREMENT SCIENCE AND TECHNOLOGY. **33** (2022), 9; 95502
DOI: <https://doi.org/10.1088/1361-6501/ac777a>
87. Mitić, Vojislav V.; Randjelović, Branislav M.; Ribar, Srdjan N.; Čebela, Maria Z.; Mohr, Markus; Vlahović, Branislav D.; Fecht, Hans J.
Thermal parameters defined with graph theory approach in synthesized diamonds
THERMAL SCIENCE. **26** (2022), 3, 2177 - 2186
DOI: <https://doi.org/10.2298/TSCI210422284M>
88. Molčanov, Lidija; Šenjug, Pavla; Barišić, Dario; Pajić, Damir; Molčanov, Krešimir; Jurić, Marijana.
Oxalate-based $[\text{Cu}(\text{I})\text{Cr}(\text{III})]$ coordination compounds affected by the tridentate ligand, simple anion, and reactant ratio: structural and magnetic features
DALTON TRANSACTIONS. **51** (2022), 42, 16292 – 16306
DOI: <https://doi.org/10.1039/d2dt01949c>
89. Muratović, Senada; Martinez, Valentina; Karadeniz, Bahar; Pajić, Damir; Brekalo, Ivana; Arhangelskis, Mihails; Mazaj, Matjaz; Mali, Gregor; Etter, Martin; Friščić, Tomislav; Krupskaya, Yulia; Kataev, Vladislav; Žilic, Dijana; Užarevic, Krunoslav.
Low-Dimensional Magnetism in Multivariate Copper/Zinc MOF-74 Materials Formed via Different Mechanochemical Methods
INORGANIC CHEMISTRY. **61** (2022), 45, 18181 – 18192
DOI: <https://doi.org/10.1021/acs.inorgchem.2c02898>

90. Mustapić, Mislav; Bafti, Arijeta; Glumac, Zvonko; Pavić, Luka; Skoko, Željko; Segota, Suzana; Klaser, Teodoro; Nedeljković, Robert; Masud, Mostafa Kamal; Alothman, Asma A.; Mushab, Mohammed Sheikh Saleh; Al Hossain, Md Shahrar.

Magnetic nanocellulose: influence of structural features on conductivity and magnetic properties

CELLULOSE. **30** (2023), 2, 1149 – 1169

DOI: <https://doi.org/10.1007/s10570-022-04956-1>

91. (n_TOF Collaboration) Lederer-Woods, C.; Aberle, O.; Andrzejewski, J.; Audouin, L.; Becares, V.; Bacak, M.; Balibrea, J.; Barbagallo, M.; Barros, S.; Battino, U.; Becvar, F.; Beinrucker, C.; Berthoumieux, E.; Billowes, J.; Bosnar, D.; Brugger, M.; Caamano, M.; Calvino, F.; Calviani, M.; Cano-Ott, D.; Cardella, R.; Casanovas, A.; Castelluccio, D. M.; Cerutti, F.; Chen, Y. H.; Chiaveri, E.; Colonna, N.; Cortes, G.; Cortes-Giraldo, M. A.; Cosentino, L.; Damone, L. A.; Diakaki, M.; Domingo-Pardo, C.; Dressler, R.; Dupont, E.; Duran, I.; Fernandez-Dominguez, B.; Ferrari, A.; Ferreira, P.; Finocchiaro, P.; Furman, V.; Goebel, K.; Garcia, A. R.; Gawlik-Ramiega, A.; Glodariu, T.; Goncalves, I. F.; Gonzalez-Romero, E.; Goverdovski, A.; Griesmayer, E.; Guerrero, C.; Gunsing, F.; Harada, H.; Heftrich, T.; Heinitz, S.; Heyse, J.; Jenkins, D. G.; Jericha, E.; Kaepfeler, F.; Kadi, Y.; Katabuchi, T.; Kavargin, P.; Ketlerov, V.; Khryachkov, V.; Kimura, A.; Kivel, N.; Kokkoris, M.; Krticka, M.; Leal-Cidoncha, E.; Leeb, H.; Leredegui-Marco, J.; Lo Meo, S.; Lonsdale, S. J.; Losito, R.; Macina, D.; Marganiec, J.; Martinez, T.; Massimi, C.; Mastinu, P.; Mastro marco, M.; Matteucci, F.; Maugeri, E. A.; Mendoza, E.; Mengoni, A.; Milazzo, P. M.; Mingrone, F.; Mirea, M.; Montesano, S.; Musumarra, A.; Nolte, R.; Oprea, A.; Patronis, N.; Pavlik, A.; Perkowski, J.; Porras, I.; Praena, J.; Quesada, J. M.; Rajeev, K.; Rauscher, T.; Reifarh, R.; Riego-Perez, A.; Rout, P. C.; Rubbia, C.; Ryan, J. A.; Sabate-Gilarte, M.; Saxena, A.; Schillebeeckx, P.; Schmidt, S.; Schumann, D.; Sedyshev, P.; Smith, A. G.; Stamatopoulos, A.; Tagliente, G.; Tain, J. L.; Tarifeno-Saldivia, A.; Tassan-Got, L.; Tsinganis, A.; Valenta, S.; Vannini, G.; Variale, V.; Vaz, P.; Ventura, A.; Vlachoudis, V.; Vlastou, R.; Wallner, A.; Warren, S.; Weigand, M.; Weiss, C.; Wolf, C.; Woods, P. J.; Wright, T.; Žugec, P.

^{74}Ge (n, γ) cross section below 70 keV measured at n_TOF CERN

EUROPEAN PHYSICAL JOURNAL A. **58** (2022), 12

DOI: <https://doi.org/10.1140/epja/s10050-022-00878-5>

92. (n_TOF Collaboration) Moreno-Soto, J.; Valenta, S.; Berthoumieux, E.; Chebboubi, A.; Diakaki, M.; Dridi, W.; Dupont, E.; Günsing, F.; Litaize, O.; Serot, O.; Aberle, O.; Alcayne, V.; Amaducci, S.; Andrzejewski, J.; Audouin, L.; Becares, V.; Babiano-Suarez, V.; Bacak, M.; Barbagallo, M.; Benedikt, Th; Bennett, S.; Billowes, J.; Bosnar, D.; Brown, A.; Busso, M.; Caamano, M.; Caballero-Ontanaya, L.; Calvino, F.; Calviani, M.; Cano-Ott, D.; Casanovas, A.; Cerutti, F.; Chiaveri, E.; Colonna, N.; Cortes, G.; Cortes-Giraldo, M. A.; Cosentino, L.; Cristallo, S.; Damone, L. A.; Davies, P. J.; Dietz, M.; Domingo-Pardo, C.; Dressler, R.; Ducasse, Q.; Duran, I.; Eleme, Z.; Fernandez-Dominguez, B.; Ferrari, A.; Finocchiaro, P.; Furman, V.; Gobel, K.; Gilardoni, S.; Goncalves, I. F.; Gonzalez-Romero, E.; Guerrero, C.; Heinitz, S.; Heyse, J.; Jenkins, D. G.; Junghans, A.; Kappeler, F.; Kadi, Y.; Kimura, A.; Knapova, I.; Kokkoris, M.; Kopatch, Y.; Kurtulgil, D.; Ladarescu, I.; Lampoudis, C.; Lederer-Woods, C.; Lonsdale, S. J.; Macina, D.; Manna, A.; Martinez, T.; Masi, A.; Massimi, C.; Mastinu, P.; Mastromarco, M.; Maugeri, E. A.; Mazzone, A.; Mendoza, E.; Mengoni, A.; Michalopoulou, V.; Milazzo, P. M.; Mingrone, F.; Musumarra, A.; Negret, A.; Nolte, R.; Ogallar, F.; Oprea, A.; Patronis, N.; Pavlik, A.; Perkowski, J.; Piersanti, L.; Petrone, C.; Pirovano, E.; Porras, I.; Praena, J.; Quesada, J. M.; Ramos-Doval, D.; Rauscher, T.; Reifarth, R.; Rochman, D.; Sabate-Gilarte, M.; Saxena, A.; Schillebeeckx, P.; Schumann, D.; Sekhar, A.; Smith, A. G.; Sosnin, N., V; Sprung, P.; Stamatopoulos, A.; Tagliente, G.; Tain, J. L.; Tarifeno-Saldivia, A.; Tassan-Got, L.; Torres-Sanchez, P.; Tsinganis, A.; Ulrich, J.; Urlass, S.; Vannini, G.; Variale, V.; Vaz, P.; Ventura, A.; Vescovi, D.; Vlachoudis, V.; Vlastou, R.; Wallner, A.; Woods, P. J.; Wright, T.; Žugec, P.

Constraints on the dipole photon strength for the odd uranium isotopes

PHYSICAL REVIEW C. **105** (2022), 2; 24618

DOI: <https://doi.org/10.1103/PhysRevC.105.024618>

93. (n_TOF Collaboration) Tagliente, G.; Kopecky, S.; Heyse, J.; Massimi, C.; Mengoni, A.; Milazzo, P. M.; Plompen, A. J. M.; Schillebeeckx, P.; Valenta, S.; Wynants, R.; Altstadt, S.; Andrzejewski, J.; Audouin, L.; Becares, V.; Barbagallo, M.; Belloni, F.; Berthoumieux, E.; Billowes, J.; Boccone, V.; Bosnar, D.; Brugger, M.; Calvino, F.; Calviani, M.; Cano-Ott, D.; Carrapico, C.; Cerutti, F.; Chiaveri, E.; Chin, M.; Colonna, N.; Cortes, G.; Cortes-Giraldo, M. A.; Cristallo, S.; Diakaki, M.; Domingo-Pardo, C.; Dressler, R.; Duran, I.; Eleftheriadis, C.; Ferrari, A.; Fraval, K.; Furman, V.; Gobel, K.; Gomez-Hornillos, M. B.; Ganesan, S.; Garcia, A. R.; Giubrone, G.; Goncalves, I. F.; Gonzalez-Romero, E.; Goverdovski, A.; Griesmayer, E.; Guerrero, C.; Günsing, F.; Heftrich, T.; Hernandez-Prieto, A.; Jericha, E.; Kappeler, F.; Kadi, Y.; Karadimos, D.; Katabuchi, T.; Ketlerov, V.; Khryachkov, V.; Kivel, N.; Kokkoris, M.; Kroll, J.; Lampoudis, C.; Langer, C.; Leal-Cidoncha, E.; Lederer, C.; Leeb, H.; Leong, L. S.; Losito, R.; Lugaro, M.; Mallick, A.; Manousos, A.; Marganiec, J.; Martinez, T.; Mastinu, P.; Mastromarco, M.; Mendoza, E.; Mingrone, F.; Mirea, M.; Paradela, C.; Pavlik, A.; Perkowski, J.; Praena, J.; Quesada, J. M.; Rauscher, T.; Reifarth, R.; Riego-Perez, A.; Robles, M.; Rubbia, C.; Ryan, J. A.; Sabate-Gilarte, M.; Sarmiento, R.; Saxena, A.; Schmidt, S.; Schumann, D.; Sedyshev, P.; Tain, J. L.; Tarifeno-Saldivia, A.; Tarrío, D.; Tassan-Got, L.; Tsinganis, A.; Vannini, G.; Variale, V.; Vaz, P.; Ventura, A.; Vermeulen, M. J.; Vescovi, D.; Vlachoudis, V.; Vlastou, R.; Wallner, A.; Ware, T.; Weigand, M.; Weiss, C.; Wright, T.; Žugec, P.

^{92}Zr (n, γ) and (n, tot) measurements at the GELINA and n_TOF

PHYSICAL REVIEW C. **105** (2022), 2; 25805

DOI: <https://doi.org/10.1103/PhysRevC.105.025805>

94. Najev, A.; Hameed, S.; Gautreau, D.; Wang, Z.; Joe, J.; Pozek, M.; Birol, T.; Fernandes, R. M.; Greven, M.; Pelc, D.
Uniaxial Strain Control of Bulk Ferromagnetism in Rare-Earth Titanates
PHYSICAL REVIEW LETTERS. **128** (2022), 16; 167201
DOI: <https://doi.org/10.1103/PhysRevLett.128.167201>
95. Napolitano, F.; Sgaramella, F.; Bazzi, M.; Bosnar, D.; Bragadireanu, M.; Carminati, M.; Cargnelli, M.; Clozza, A.; Deda, G.; De Paolis, L.; Del Grande, R.; Fabbietti, L.; Fiorini, C.; Guaraldo, C.; Iliescu, M.; Iwasaki, M.; Sandri, P. Levi; Marton, J.; Miliucci, M.; Moskal, P.; Niedzwiecki, S.; Piscicchia, K.; Scordo, A.; Shi, H.; Sirghi, D.; Sirghi, F.; Silarski, M.; Skurzok, M.; Spallone, A.; Tuechler, M.; Zmeskal, J.; Curceanu, C.
Kaonic atoms at the DA Φ NE collider with the SIDDHARTA-2 experiment
PHYSICA SCRIPTA. **97** (2022), 8; 84006
DOI: <https://doi.org/10.1088/1402-4896/ac7fc0>
96. Nikic, Marta; Opancar, Aleksandar; Hartmann, Florian; Migliaccio, Ludovico; Jakesova, Marie; Glowacki, Eric Daniel; Derek, Vedran.
Micropyramid structured photo capacitive interfaces
NANOTECHNOLOGY. **33** (2022), 24; 245302
DOI: <https://doi.org/10.1088/1361-6528/ac5927>
97. Nomura, K.; Karakatsanis, K. E.
Collective-model description of shape coexistence and intruder states in cadmium isotopes based on a relativistic energy density functional
PHYSICAL REVIEW C. **106** (2022), 6; 64317
DOI: <https://doi.org/10.1103/PhysRevC.106.064317>
98. Nomura, K.; Lotina, L.; Rodriguez-Guzman, R.; Robledo, L. M.
Simultaneous description of β decay and low-lying structure of neutron-rich even- and odd-mass Rh and Pd nuclei
PHYSICAL REVIEW C. **106** (2022), 6; 64304
DOI: <https://doi.org/10.1103/PhysRevC.106.064304>
99. Nomura, K.; Petrache, C. M.
Questioning the wobbling interpretation of low-spin bands in gamma-soft nuclei within the interacting boson-fermion model
PHYSICAL REVIEW C. **105** (2022), 2; 24320
DOI: <https://doi.org/10.1103/PhysRevC.105.024320>
100. Nomura, Kosuke.
 β decay and evolution of low-lying structure in Ge and As nuclei
PHYSICAL REVIEW C. **105** (2022), 4; 44306
DOI: <https://doi.org/10.1103/PhysRevC.105.044306>
101. Nomura, Kosuke.
Effect of configuration mixing on quadrupole and octupole collective states of transitional nuclei
PHYSICAL REVIEW C. **106** (2022), 2; 24330
DOI: <https://doi.org/10.1103/PhysRevC.106.024330>

102. Nomura, Kosuke.
Octupole correlations in collective excitations of neutron-rich N approximate to 56 nuclei
PHYSICAL REVIEW C. **105** (2022), 5; 54318
DOI: <https://doi.org/10.1103/PhysRevC.105.054318>
103. Nomura, Kosuke.
Two-neutrino double-beta decay in the mapped interacting boson model
PHYSICAL REVIEW C. **105** (2022), 4; 44301
DOI: <https://doi.org/10.1103/PhysRevC.105.044301>
104. Novak, Andrej; Reinić, Nora.
Shock filter as the classifier for image inpainting problem using the Cahn-Hilliard equation
COMPUTERS & MATHEMATICS WITH APPLICATIONS. **123** (2022), 105 – 114
DOI: <https://doi.org/10.1016/j.camwa.2022.07.021>
105. Novosel, Nikolina; Gongora, David Rivas; Jagličić, Zvonko; Tafra, Emil; Basletić, Mario; Hamzić, Amir; Klaser, Teodoro; Skoko, Željko; Salamon, Krešimir; Piltaver, Ivna Kavre; Petravić, Mladen; Korin-Hamzić, Bojana; Tomić, Silvia; Gorshunov, Boris P.; Zhang, Tao; Ivek, Tomislav; Čulo, Matija.
Grain-Size-Induced Collapse of Variable Range Hopping and Promotion of Ferromagnetism in Manganite La_{0.5}Ca_{0.5}MnO₃
CRYSTALS. **12** (2022), 5; 724
DOI: <https://doi.org/10.3390/cryst12050724>
106. Oishi, Tomohiro; Ravlić, Ante; Paar, Nils.
Symmetry breaking of Gamow-Teller and magnetic-dipole transitions and its restoration in calcium isotopes
PHYSICAL REVIEW C. **105** (2022), 6; 64309
DOI: <https://doi.org/10.1103/PhysRevC.105.064309>
107. Ovčar, Juraj; Leung, Tik Lun; Grisanti, Luca; Skoko, Željko; Vrankić, Martina; Low, Kam-Hung; Wang, Shixun; You, Pei-Ying; Ahn, Hyeyoung; Lončarić, Ivor; Đurišić, Aleksandra B.; Popović, Jasminka.
Mixed Halide Ordering as a Tool for the Stabilization of Ruddlesden-Popper Structures
CHEMISTRY OF MATERIALS. **34** (2022), 10, 4286 – 4297
DOI: <https://doi.org/10.1021/acs.chemmater.1c03815>
108. Parashari, S.; Bosnar, D.; Kožuljević, A. M.; Makek, M.
Measurement of angular correlations of Compton-scattered gamma quanta from positron annihilation using GAGG:Ce scintillator matrices with single-side readout
JOURNAL OF INSTRUMENTATION. **17** (2022), 9; C09007
DOI: <https://doi.org/10.1088/1748-0221/17/09/C09007>
109. Parashari, Siddharth; Bokulić, Tomislav; Bosnar, Damir; Kožuljević, Ana Marija; Kunčić, Zdenka; Žugec, Petar; Makek, Mihael.
Optimization of detector modules for measuring gamma-ray polarization in Positron Emission Tomography
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A - ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. **1040** (2022); 167186
DOI: <https://doi.org/10.1016/j.nima.2022.167186>

110. Pavlovski, K.; Hummel, C. A.; Tkachenko, A.; Dervisoglu, A.; Kayhan, C.; Zavala, R. T.; Hutter, D. J.; Tycner, C.; Sahin, T.; Audenaert, J.; Baeyens, R.; Bodensteiner, J.; Bowman, D. M.; Gebruers, S.; Jannsen, N. E.; Mombarg, J. S. G.
Dynamical parallax, physical parameters, and evolutionary status of the components of the bright eclipsing binary alpha Draconis
ASTRONOMY & ASTROPHYSICS. **658** (2022); A92
DOI: <https://doi.org/10.1051/0004-6361/202142292>
111. Pelc, D.; Spieker, R. J.; Anderson, Z. W.; Krogstad, M. J.; Biniskos, N.; Bielinski, N. G.; Yu, B.; Sasagawa, T.; Chauviere, L.; Dosanjh, P.; Liang, R.; Bonn, D. A.; Damascelli, A.; Chi, S.; Liu, Y.; Osborn, R.; Greven, M.
Unconventional short-range structural fluctuations in cuprate superconductors
SCIENTIFIC REPORTS. **12** (2022), 1; 20483
DOI: <https://doi.org/10.1038/s41598-022-22150-y>
112. Petrović, Željka; Ristić, Mira; Roković, Marijana Kraljić; Zadro, Krešo; Kuzmann, Erno; Homonnay, Zoltan; Musić, Svetozar; Krehula, Stjepko.
Effects of Pt and Ru doping on the magnetic, optical, photoelectrochemical and photocatalytic properties of electrospun hematite (α -Fe₂O₃) fibres
JOURNAL OF MATERIALS RESEARCH. **38** (2023), 4, 974 – 989
DOI: <https://doi.org/10.1557/s43578-022-00645-8>
113. (PHENIX Collaboration) Acharya U. A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L.
Systematic study of nuclear effects in p+Al, p+Au, d+Au, and 3He+Au collisions at $\sqrt{s_{NN}}=200$ GeV using π^0 production
PHYSICAL REVIEW C. **105** (2022), 6; 064902
DOI: <https://doi.org/10.1103/PhysRevC.105.064902>
- (PHENIX Collaboration) Acharya U.A.; ...; Dumančić, Mirta; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L.
Kinematic dependence of azimuthal anisotropies in p plus Au, d + Au, and He-3 +Au at $\sqrt{s_{NN}}=200$ GeV
PHYSICAL REVIEW C. **105** (2022), 2; 024901
DOI: <https://doi.org/10.1103/PhysRevC.105.024901>
114. (PHENIX Collaboration) Acharya U.A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L.
Transverse-single-spin asymmetries of charged pions at midrapidity in transversely polarized p plus p collisions at $\sqrt{s}=200$ GeV
PHYSICAL REVIEW D. **105** (2022), 3; 032003
DOI: <https://doi.org/10.1103/PhysRevD.105.032003>
115. (PHENIX Collaboration) Acharya U.A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L.
Transverse single spin asymmetries of forward neutrons in p+p, p+Al, and p+Au collisions at $\sqrt{s_{NN}}=200$ GeV as a function of transverse and longitudinal momenta
PHYSICAL REVIEW D. **105** (2022), 3; 032004
DOI: <https://doi.org/10.1103/PhysRevD.105.032004>
116. (PHENIX Collaboration) Acharya U.A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L.
Measurement of $\psi(2S)$ nuclear modification at backward and forward rapidity in p+p, p+Al, and p+Au collisions at $\sqrt{s_{NN}}=200$ GeV
PHYSICAL REVIEW C. **105** (2022), 6; 064912
DOI: <https://doi.org/10.1103/PhysRevC.105.064912>

117. (PHENIX Collaboration) Acharya, U.A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L.
Study of ϕ -meson production in p+Al, p+Au, d+Au, and 3He+Au collisions at $\sqrt{s_{NN}} = 200$ GeV
PHYSICAL REVIEW C. **106** (2022), 1; 014908
DOI: <https://doi.org/10.1103/PhysRevC.106.014908>
118. (PI Team); (Core Team); (SEPsBerne) Olivier; Habart, ...; Bilalbegović, G.; ...; Zhen, Junfeng.
PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars
PUBLICATIONS OF THE ASTRONOMICAL SOCIETY OF THE PACIFIC. **134** (2022), 1035; 54301
DOI: <https://doi.org/10.1088/1538-3873/ac604c>
119. Popara, N.; Ravlić, A.; Paar, N.
Two-neutrino double-beta decay matrix elements based on a relativistic nuclear energy density functional
PHYSICAL REVIEW C. **105** (2022), 6; 64315
DOI: <https://doi.org/10.1103/PhysRevC.105.064315>
120. Popčević, Petar; Utsumi, Yuki; Bialo, Izabela; Tabis, Wojciech; Gala, Mateusz A.; Rosmus, Marcin; Kolodziej, Jacek J.; Tomaszewska, Natalia; Garb, Mariusz; Berger, Helmuth; Batistic, Ivo; Barišić, Neven; Forro, Laszlo; Tutiš, Eduard.
Role of intercalated cobalt in the electronic structure of Co_{1/3}NbS₂
PHYSICAL REVIEW B. **105** (2022), 15; 155114
DOI: <https://doi.org/10.1103/PhysRevB.105.155114>
121. Popov, Nina; Ristić, Mira; Kuncser, Victor; Zadro, Krešo; Velinov, Nikolay; Badica, Petre; Alexandru-Dinu, Andrei; Iacob, Nicusor; Krehula, Ljerka Kratofil; Musić, Svetozar; Krehula, Stjepko.
Influence of erbium doping on the structural, magnetic and optical properties of hematite (α -Fe₂O₃) nanorods
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS. **169** (2022); 110857
DOI: <https://doi.org/10.1016/j.jpcs.2022.110857>
122. (PREX and CREX Collaboration) Adhikari, D.; Albataineh, H.; Androić, D.; Aniol, K.; Armstrong, D. S.; Averett, T.; Gayoso, C. Ayerbe; Barcus, S.; Bellini, V.; Beminiwattha, R. S.; Benesch, J. F.; Bhatt, H.; Pathak, D. Bhatta; Bhetuwal, D.; Blaikie, B.; Boyd, J.; Campagna, Q.; Camsonne, A.; Cates, G. D.; Chen, Y.; Clarke, C.; Cornejo, J. C.; Dusa, S. Covrig; Dalton, M. M.; Datta, P.; Deshpande, A.; Dutta, D.; Feldman, C.; Fuchey, E.; Gal, C.; Gaskell, D.; Gautam, T.; Gericke, M.; Ghosh, C.; Halilovic, I.; Hansen, J. -O.; Hauenstein, F.; Henry, W.; Horowitz, C. J.; Jantzi, C.; Jian, S.; Johnston, S.; Jones, D. C.; Karki, B.; Kakkar, S.; Katugampola, S.; Keppel, C. E.; King, P. M.; King, D. E.; Knauss, M.; Kumar, K. S.; Kutz, T.; Lashley-Colthirst, N.; Leverick, G.; Liu, H.; Liyange, N.; Malace, S.; Mammei, J.; Mammei, R.; McCaughan, M.; McNulty, D.; Meekins, D.; Metts, C.; Michaels, R.; Mihovilovic, M.; Mondal, M. M.; Napolitano, J.; Nikolaev, D.; Rashad, M. N. H.; Owen, V.; Palatchi, C.; Pan, J.; Pandey, B.; Park, S.; Paschke, K. D.; Petrusky, M.; Pitt, M. L.; Premathilake, S.; Puckett, A. J. R.; Quinn, B.; Radloff, R.; Rahman, S.; Rathnayake, A.; Reed, B. T.; Reimer, P. E.; Richards, R.; Riordan, S.; Roblin, Y.; Seeds, S.; Shahinyan, A.

- Souder, P. A.; Tang, L.; Thiel, M.; Tian, Y.; Urciuoli, G. M.; Wertz, E. W.; Wojtsekhowski, B.; Xiong, W.; Yale, B.; Ye, T.; Zec, A.; Zhang, W.; Zhang, J.; Zheng, X.
New Measurements of the Beam-Normal Single Spin Asymmetry in Elastic Electron Scattering over a Range of Spin-0 Nuclei
PHYSICAL REVIEW LETTERS. **128** (2022), 14; 142501
DOI: <https://doi.org/10.1103/PhysRevLett.128.142501>
123. (Qweak Collaboration) Androić, D.; Armstrong, D. S.; Bartlett, K.; Beminiwattha, R. S.; Benesch, J.; Benmokhtar, F.; Birchall, J.; Carlini, R. D.; Cornejo, J. C.; Dusa, S. Covrig; Dalton, M. M.; Davis, C. A.; Deconinck, W.; Dowd, J. F.; Dunne, J. A.; Dutta, D.; Duvall, W. S.; Elaasar, M.; Falk, W. R.; Finn, J. M.; Forest, T.; Gal, C.; Gaskell, D.; Gericke, M. T. W.; Gray, V. M.; Grimm, K.; Guo, F.; Hoskins, J. R.; Jones, D. C.; Jones, M. K.; Kargiantoulakis, M.; King, P. M.; Korkmaz, E.; Kowalski, S.; Leacock, J.; Leckey, J.; Lee, A. R.; Lee, J. H.; Lee, L.; MacEwan, S.; Mack, D.; Magee, J. A.; Mahurin, R.; Mammei, J.; Martin, J. W.; McHugh, M. J.; Meekins, D.; Mesick, K. E.; Michaels, R.; Micherdzinska, A.; Mkrtchyan, A.; Mkrtchyan, H.; Narayan, A.; Ndukum, L. Z.; Nelyubin, V.; Nuruzzaman; van Oers, W. T. H.; Owen, V. F.; Page, S. A.; Pan, J.; Paschke, K. D.; Phillips, S. K.; Pitt, M. L.; Radloff, R. W.; Rajotte, J. F.; Ramsay, W. D.; Roche, J.; Sawatzky, B.; Seva, T.; Shabestari, M. H.; Silwal, R.; Simicevic, N.; Smith, G. R.; Solvignon, P.; Spayde, D. T.; Subedi, A.; Suleiman, R.; Tadevosyan, V.; Tobias, W. A.; Tvaskis, V.; Waidyawansa, B.; Wang, P.; Wells, S. P.; Wood, S. A.; Yang, S.; Zang, P.; Zhamkochyan, S.; Christy, M. E.; Horowitz, C. J.; Fattoyev, F. J.; Lin, Z.
Determination of the Al-27 Neutron Distribution Radius from a Parity-Violating Electron Scattering Measurement
PHYSICAL REVIEW LETTERS. **128** (2022), 13; 132501
DOI: <https://doi.org/10.1103/PhysRevLett.128.132501>
124. Radić, Danko; Choi, Sang-Jun; Park, Hee Chul; Suh, Junho; Shekhter, Robert I.; Gorelik, Leonid Y.
Nanomechanical cat states generated by a dc voltage-driven Cooper pair box qubit
NPJ QUANTUM INFORMATION. **8** (2022), 1; 74
DOI: <https://doi.org/10.1038/s41534-022-00584-6>
125. Ren, Z. X.; Vretenar, D.; Nikšić, T.; Zhao, P. W.; Zhao, J.; Meng, J.
Dynamical Synthesis of ^4He in the Scission Phase of Nuclear Fission
PHYSICAL REVIEW LETTERS. **128** (2022), 17; 172501
DOI: <https://doi.org/10.1103/PhysRevLett.128.172501>
126. Ren, Z. X.; Zhao, J.; Vretenar, D.; Nikšić, T.; Zhao, P. W.; Meng, J.
Microscopic analysis of induced nuclear fission dynamics
PHYSICAL REVIEW C. **105** (2022), 4; 44313
DOI: <https://doi.org/10.1103/PhysRevC.105.044313>
127. Risteski, Patrik; Bozan, Domagoj; Jagrić, Mihaela; Bosilj, Agneza; Pavin, Nenad; Tolić, Iva M.
Length-dependent poleward flux of sister kinetochore fibers promotes chromosome alignment
CELL REPORTS. **40** (2022), 5; 111169
DOI: <https://doi.org/10.1016/j.celrep.2022.111169>

128. Rodriguez-Guzman, R.; Robledo, L. M.; Nomura, K.; Hernandez, N. Cruz.
Quadrupole-octupole collectivity in the Xe, Ba, Ce and Nd isotopic chains described with mean field and beyond approaches
JOURNAL OF PHYSICS G - NUCLEAR AND PARTICLE PHYSICS. **49** (2022), 1; 15101
DOI: <https://doi.org/10.1088/1361-6471/ac3472>
129. Rosandić, Marija; Paar, Vladimir.
Standard Genetic Code vs. Supersymmetry Genetic Code - Alphabetical table vs. physicochemical table
BIOSYSTEMS. **218** (2022); 104695
DOI: <https://doi.org/10.1016/j.biosystems.2022.104695>
130. Rosandić, Marija; Vlahović, Ines; Pilaš, Ivan; Glunčić, Matko; Paar, Vladimir.
An Explanation of Exceptions from Chargaff's Second Parity Rule/Strand Symmetry of DNA Molecules
GENES. **13** (2022), 11; 1929
DOI: <https://doi.org/10.3390/genes13111929>
131. Rukelj, Zoran; Radić, Danko.
DC and optical signatures of the reconstructed Fermi surface for electrons with parabolic band
NEW JOURNAL OF PHYSICS. **24** (2022), 5; 53024
DOI: <https://doi.org/10.1088/1367-2630/ac696d>
132. Rukelj, Zoran; Radić, Danko.
Topological Properties of the 2D 2-Band System with Generalized W-Shaped Band Inversion
QUANTUM REPORTS. **4** (2022), 476-485
DOI: <https://doi.org/10.3390/quantum4040034>
133. Sangeeta; Ghosh, T.; Maheshwari, B.; Saxena, G.; Agrawal, B. K.
Astrophysical reaction rates with realistic nuclear level densities
PHYSICAL REVIEW C. **105** (2022), 4; 44320
DOI: <https://doi.org/10.1103/PhysRevC.105.044320>
134. Santos-Cottin, D.; Wyzula, J.; Le Mardele, F.; Crassee, I; Martino, E.; Novak, J.; Eguchi, G.; Rukelj, Z.; Novak, M.; Orlita, M.; Akrap, Ana.
Addressing shape and extent of Weyl cones in TaAs by Landau level spectroscopy
PHYSICAL REVIEW B. **105** (2022), 8; L081114
DOI: <https://doi.org/10.1103/PhysRevB.105.L081114>
135. Sarkar, Gayatri; Kaur, Amandeep; Maiti, Moumita; Sharma, Manoj K.
A theoretical study on the impact of centrifugal potential and fragment identification in the decay of compound nuclei (A_CN=60 & 100)
INTERNATIONAL JOURNAL OF MODERN PHYSICS E. **31** (2022), 10N11; 2250094
DOI: <https://doi.org/10.1142/S021830132250094X>

136. Schmidt, Tony; Jakesova, Marie; Derek, Vedran; Kornmueller, Karin; Tiapko, Oleksandra; Bischof, Helmut; Burgstaller, Sandra; Waldherr, Linda; Nowakowska, Marta; Baumgartner, Christian; Ucal, Muammer; Leitinger, Gerd; Scheruebel, Susanne; Patz, Silke; Malli, Roland; Glowacki, Eric Daniel; Rienmueller, Theresa; Schindl, Rainer.
Light Stimulation of Neurons on Organic Photocapacitors Induces Action Potentials with Millisecond Precision
ADVANCED MATERIALS TECHNOLOGIES. **7** (2022), 9; 2101159
DOI: <https://doi.org/10.1002/admt.202101159>
137. Scordo, A.; Amsler, C.; Bazzi, M.; Bosnar, D.; Bragadireanu, M.; Cargnelli, M.; Carminati, M.; Clozza, A.; Deda, G.; De Paolis, L.; Del Grande, R.; Fabbietti, L.; Fiorini, C.; Guaraldo, C.; Iliescu, M.; Iwasaki, M.; Khreptak, A.; King, P.; Sandri, P. Levi; Manti, S.; Marton, J.; Miliucci, M.; Moskal, P.; Napolitano, F.; Ohnishi, H.; Piscicchia, K.; Sada, Y.; Sgaramella, F.; Shi, H.; Silarski, M.; Sirghi, D. L.; Sirghi, F.; Skurzok, M.; Spallone, A.; Toho, K.; Tuchler, M.; Doce, O. Vazquez; Yoshida, C.; Zmeskal, J.; Curceanu, C.
First Tests of the Full SIDDHARTA-2 Experimental Apparatus with a 4He Gaseous Target
ACTA PHYSICA POLONICA A. **142** (2022), 3, 373 – 377
DOI: <https://doi.org/10.12693/APhysPolA.142.373>
138. Sgaramella, F.; Miliucci, M.; Bazzi, M.; Bosnar, D.; Bragadireanu, M.; Carminati, M.; Cargnelli, M.; Clozza, A.; Deda, G.; De Paolis, L.; Del Grande, R.; Fiorini, C.; Guaraldo, C.; Iliescu, M.; Iwasaki, M.; King, P.; Sandri, P. Levi; Marton, J.; Moskal, P.; Napolitano, F.; Niedzwiecki, S.; Piscicchia, K.; Scordo, A.; Shi, H.; Silarski, M.; Sirghi, D.; Sirghi, F.; Skurzok, M.; Spallone, A.; Tuechler, M.; Zmeskal, J.; Curceanu, C.
The SIDDHARTA-2 calibration method for high precision kaonic atoms x-ray spectroscopy measurements
PHYSICA SCRIPTA. **97** (2022), 11; 114002
DOI: <https://doi.org/10.1088/1402-4896/ac95da>
139. Silverå Ejneby, Malin; Jakešová, Marie; Ferrero, Jose J; Migliaccio, Ludovico; Sahalianov, Ihor; Zhao, Zifang; Berggren, Magnus; Khodagholy, Dion; Derek, Vedran; Gelinias, Jennifer N; Głowacki, Eric Daniel.
Chronic electrical stimulation of peripheral nerves via deep-red light transduced by an implanted organic photocapacitor
NATURE BIOMEDICAL ENGINEERING. (2022), 6; 741-753
DOI: <https://doi.org/10.1038/s41551-021-00817-7>
140. Skurzok, Magdalena; Bazzi, Massimiliano; Bragadireanu, Mario; Bosnar, Damir; Cargnelli, Michael; Clozza, Alberto; Curceanu, Catalina; de Paolis, Luca; Del Grande, Raffaele; Fabbietti, Laura; Guaraldo, Carlo; Iliescu, Mihai; Iwasaki, Masahiko; Sandri, Paolo Levi; Marton, Johann; Miliucci, Marco; Moskal, Pawel; Piscicchia, Kristian; Ramos, Angels; Scordo, Alessandro; Silarski, Michal; Sirghi, Diana Laura; Sirghi, Florin; Spallone, Antonio; Doce, Oton Vazquez; Wycech, Slawomir; Zmeskal, Johann.
Investigation of the low-energy K- hadronic interactions with light nuclei by AMADEUS
INTERNATIONAL JOURNAL OF MODERN PHYSICS E. **31** (2022), 8; 2240001
DOI: <https://doi.org/10.1142/S0218301322400018>

141. Stanić, Petra; Barišić, Dario; Pajić, Damir; Šantić, Ana; Molčanov, Krešimir.
One-Dimensional π -Stacks of Pancake-Bonded 5,6-Dichloro-2,3-dicyanosemiquinone Radical Anions
CRYSTAL GROWTH & DESIGN. **22** (2022), 11; 6461-6471
DOI: <https://doi.org/10.1021/acs.cgd.2c00638>
142. Stipčević, Mario; Batelić, Mateja.
Entropy considerations in improved circuits for a biologically-inspired random pulse computer
SCIENTIFIC REPORTS. **12** (2022), 1; 115
DOI: <https://doi.org/10.1038/s41598-021-04177-9>
143. Suman, Saket; Tandel, S. K.; Wahid, S. G.; Manu, T.; Hemalatha, M.; Maheshwari, B.; Jain, A. K.; Chowdhury, P.; Janssens, R. V. F.; Kondev, F. G.; Carpenter, M. P.; Lauritsen, T.; Seweryniak, D.
Successive neutron alignments in the yrast, negative-parity band of oblate-deformed Tl-199
PHYSICAL REVIEW C. **106** (2022), 2; 24316
DOI: <https://doi.org/10.1103/PhysRevC.106.024316>
144. Sunko, Denis K.
Entropy of pure states: not all wave functions are born equal
4OPEN. **5** (2022), 3, 10
DOI: <https://doi.org/10.1051/fopen/2021006>
145. Sunko, D. K.
Evaluation and spanning sets of confluent Vandermonde forms
JOURNAL OF MATHEMATICAL PHYSICS. **63** (2022), 8; 82101
DOI: <https://doi.org/10.1063/5.0075576>
146. Tisanic, K.; De Zotti, G.; Amiri, A.; Khoram, A.; Tavasoli, S.; Vidović-Tisanić, Z.
Infrared-radio relation in the local Universe
ASTRONOMY & ASTROPHYSICS. **658** (2022); A21
DOI: <https://doi.org/10.1051/0004-6361/202140402>
147. Torre, Gianpaolo; Marić, Vanja; Kuić, Domagoj; Franchini, Fabio; Giampaolo, Salvatore Marco.
Odd thermodynamic limit for the Loschmidt echo
PHYSICAL REVIEW B. **105** (2022), 18; 184424
DOI: <https://doi.org/10.1103/PhysRevB.105.184424>
148. Trupinić, Monika; Kokanović, Barbara; Ponjavić, Ivana; Barišić, Ivan; Šegvić, Siniša; Iveć, Arian; Tolić, Iva M.
The chirality of the mitotic spindle provides a mechanical response to forces and depends on microtubule motors and augmin
CURRENT BIOLOGY. **32** (2022), 11, 2480-2493
DOI: <https://doi.org/10.1016/j.cub.2022.04.035>

149. Velle, Katrina B.; Kennard, Andrew S.; Trupini, Monika; Ivec, Arian; Swafford, Andrew J. M.; Nolton, Emily; Rice, Luke M.; Tolić, Iva M.; Fritz-Laylin, Lillian K.; Wadsworth, Patricia. Naegleria's mitotic spindles are built from unique tubulins and highlight core spindle features
CURRENT BIOLOGY. **32** (2022), 6, 1247
DOI: <https://doi.org/10.1016/j.cub.2022.01.034>
150. Verriere, Marc; Schunck, Nicolas; Kim, Irene; Marević, Petar; Quinlan, Kevin; Ngo, Michelle N.; Regnier, David; Lasserri, Raphael David. Building surrogate models of nuclear density functional theory with Gaussian processes and autoencoders
FRONTIERS IN PHYSICS. **10** (2022); 1028370
DOI: <https://doi.org/10.3389/fphy.2022.1028370>
151. (A1 and MAGIX Collaborations) Wang, Y.; Bernauer, J. C.; Schlimme, B. S.; Achenbach, P.; Aulenbacher, S.; Ball, M.; Biroth, M.; Bonaventura, D.; Bosnar, D.; Brand, P.; Caiazza, S.; Christmann, M.; Cline, E.; Denig, A.; Distler, M. O.; Doria, L.; Eckert, P.; Esser, A.; Friščić, I; Gagneur, S.; Geimer, J.; Grieser, S.; Guelker, P.; Herrmann, P.; Hoek, M.; Kegel, S.; Kelsey, J.; Klag, P.; Khoukaz, A.; Kohl, M.; Kolar, T.; Lauss, M.; Lessmann, L.; Littich, M.; Lunkenheimer, S.; Mareković, J.; Markus, D.; Mauch, M.; Merkel, H.; Mihovilović, M.; Milner, R. G.; Mueller, J.; Mueller, U.; Petrović, T.; Pochodzalla, J.; Rausch, J.; Schlaadt, J.; Schuerg, H.; Sfienti, C.; Širca, S.; Spreckels, R.; Stengel, S.; Stoettinger, Y.; Szyszka, C.; Thiel, M.; Vestrick, S.; Vidal, C. Low-Q2 elastic electron-proton scattering using a gas jet target
PHYSICAL REVIEW C. **106** (2022), 4; 44610
DOI: <https://doi.org/10.1103/PhysRevC.106.044610>
152. Weaver, J. R.; Kauffmann, O. B.; Ilbert, O.; McCracken, H. J.; Moneti, A.; Toft, S.; Brammer, G.; Shuntov, M.; Davidzon, I; Hsieh, B. C.; Laigle, C.; Anastasiou, A.; Jespersen, C. K.; Vinther, J.; Capak, P.; Casey, C. M.; McPartland, C. J. R.; Milvang-Jensen, B.; Mobasher, B.; Sanders, D. B.; Zalesky, L.; Arnouts, S.; Aussel, H.; Dunlop, J. S.; Faisst, A.; Franx, M.; Furtak, L. J.; Fynbo, J. P. U.; Gould, K. M. L.; Greve, T. R.; Gwyn, S.; Kartaltepe, J. S.; Kashino, D.; Koekemoer, A. M.; Kokorev, V; Le Fevre, O.; Lilly, S.; Masters, D.; Magdis, G.; Mehta, V; Peng, Y.; Riechers, D. A.; Salvato, M.; Sawicki, M.; Scarlata, C.; Scoville, N.; Shirley, R.; Silverman, J. D.; Sneppen, A.; Smolčić, V; Steinhardt, C.; Stern, D.; Tanaka, M.; Taniguchi, Y.; Teplitz, H., I; Vaccari, M.; Wang, W-H; Zamorani, G. COSMOS2020: A Panchromatic View of the Universe to $z \sim 10$ from Two Complementary Catalogs
ASTROPHYSICAL JOURNAL SUPPLEMENT SERIES. **258** (2022), 1; 11
DOI: <https://doi.org/10.3847/1538-4365/ac3078>
153. Wyzula, Jan; Lu, Xin; Santos-Cottin, David; Mukherjee, Dibya Kanti; Mohelsky, Ivan; Le Mardele, Florian; Novak, Jiri; Novak, Mario; Sankar, Raman; Krupko, Yuriy; Piot, Benjamin A.; Lee, Wei-Li; Akrap, Ana; Potemski, Marek; Goerbig, Mark O.; Orlita, Milan. Lorentz-Boost-Driven Magneto-Optics in a Dirac Nodal-Line Semimetal
ADVANCED SCIENCE. **9** (2022), 23; 2105720
DOI: <https://doi.org/10.1002/adv.202105720>

154. Zemljak, Olivera; Golic, Danijela Lukovic; Pocuca-Nesic, Milica; Dapcevic, Aleksandra; Senjug, Pavla; Pajic, Damir; Radosevic, Tina; Brankovic, Goran; Brankovic, Zorica.
Titanium doped yttrium manganite: improvement of microstructural properties and peculiarities of multiferroic properties
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. **103** (2022), 3, 807 - 819
DOI: <https://doi.org/10.1007/s10971-022-05872-3>
155. Zhang, D. D.; Ren, Z. X.; Zhao, P. W.; Vretenar, D.; Nikšić, T.; Meng, J.
Effects of rotation and valence nucleons in molecular α -chain nuclei
PHYSICAL REVIEW C. **105** (2022), 2; 24322
DOI: <https://doi.org/10.1103/PhysRevC.105.024322>
156. Zhang, Yinu; Bjelčić, Antonio; Nikšić, Tamara; Litvinova, Elena; Ring, Peter; Schuck, Peter.
Many-body approach to superfluid nuclei in axial geometry
PHYSICAL REVIEW C. **105** (2022), 4; 44326
DOI: <https://doi.org/10.1103/PhysRevC.105.044326>
157. Zhao, Jie; Nikšić, Tamara; Vretenar, Dario.
Time-dependent generator coordinate method study of fission. II. Total kinetic energy distribution
PHYSICAL REVIEW C. **106** (2022), 5; 54609
DOI: <https://doi.org/10.1103/PhysRevC.106.054609>
158. Zhao, Jie; Nikšić, Tamara; Vretenar, Dario.
Time-dependent generator coordinate method study of fission: Dissipation effects
PHYSICAL REVIEW C. **105** (2022), 5; 54604
DOI: <https://doi.org/10.1103/PhysRevC.105.054604>
159. Zhu, Dapeng; Zhang, Tianrui; Fu, Xiao; Hao, Runrun; Hamzić, Amir; Yang, Huaiwen; Zhang, Xueying; Zhang, Hui; Du, Ao; Xiong, Danrong; Shi, Kewen; Yan, Shishen; Zhang, Shufeng; Fert, Albert; Zhao, Weisheng.
Sign Change of Spin-Orbit Torque in Pt / NiO / CoFeB Structures
PHYSICAL REVIEW LETTERS. **128** (2022), 21; 217702
DOI: <https://doi.org/10.1103/PhysRevLett.128.217702>
160. (n_TOF Collaboration) Žugec, P.; Barbagallo, M.; Andrzejewski, J.; Perkowski, J.; Colonna, N.; Bosnar, D.; Gawlik, A.; Sabate-Gilarte, M.; Bacak, M.; Mingrone, F.; Chiaveri, E.
Machine learning based event classification for the energy-differential measurement of the C-nat (n, p) and C-nat (n, d) reactions
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A - ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. **1033** (2022); 166686
DOI: <https://doi.org/10.1016/j.nima.2022.166686>