Dmitry Testov

LIST OF SCIENTIFIC PAPERS

Peer-reviewed journals (published 33)

✓ Nucl. Inst.&Meth. A 979 164345 (2020) ➲ J.Bradbury, **D. Testov** S .Bakes et al., „*Lifetime measurements using a plunger device and the EUCLIDES Si array at the GALILEO γ-ray spectrometer*".

✓ JINST 14 P08002 (2019) ➲ **D. Testov**, D. Verney, Yu. Penionzhkevich et al., „*Trial for the long neutron counter TETRA using ^{96,97}Rb radioactive sources*"

✓ Eur. Phys. J. A (2019) 55 47 ➲ **D. Testov**, D. Mengoni, A. Goasduff et al., „*The 4π highly-efficient light-charged-particle detector EUCLIDES, installed at the GALILEO array for in-beam γ-ray spectroscopy*"

✓ Phys. Rev. C 95, 054320 (2017) ➲ D. Verney, **D. Testov**, B. Roussiere et al., „*Pygmy Gamow-Teller resonance in the N = 50 region: New evidence from staggering of β-delayed neutron-emission probabilities*".

✓ Nucl. Inst.&Meth. A 815 96 (2016) ➲ **D. Testov**, D. Verney, B. Roussiere et al., „*The ^{3}He long-counter TETRA at the ALTO ISOL facility*".

✓ JINST 10 P09011 (2015) ➲ **D. Testov**, E. Kuznetsova, J.N. Wilson „*Response of the TETRA 4π detector to neutrons*"

✓ Nucl. Inst.&Meth. B 486 68 (2021) ➲ M. Rocchini, M. Chiari, E. Pasquali et al., „*Applications of Rutherford backscattering analysis methods to nuclear physics experiments*".

✓ Phys. Rev. C 101, 054309 (2020) ➲ A.P. Severyukhin, N.N. Arsenyev, I.N. Borzov, E.O. Sushenok, D. Testov and D. Verney „*Two-phonon structure of low-energy 1^+ excitations of ^{130}In*".

✓ Phys. Rev. C 102, 054609 (2020) ➲ P. Čolović, S. Szilner, A. Illana et al., „*Population of lead isotopes in binary reactions using a ^{94}Rb radioactive beam*".

✓ Phys. Lett. B 806, 135474 (2020) ➲ M. Siciliano, J.J. Valiente-Dobón, A. Goasduff et al., „*Pairing-quadrupole interplay in the neutron-deficient tin nuclei: First lifetime measurements of low-lying states in ^{106,108}Sn*".

✓ Phys. Rev. C 102, 044320 (2020) ➲ M. Siciliano, I. Zanon, A. Goasduff et al., „*Shape coexistence in neutron-deficient ^{188}Hg investigated via lifetime measurements*".

✓ Phys. Lett. B 807, 135572 (2020) ➲ S. Guo, C. M. Petrache, D. Mengoni et al., „*Evidence for pseudospin-chiral quartet bands in the presence of octupole correlations*".

✓ Phys. Rev. C 102, 014318 (2020) ➲ S. Guo, C. M. Petrache, D. Mengoni et al., „*Evidence for pseudospin-chiral quartet bands in the presence of octupole correlations*".

✓ Phys. Rev. C 101, 044313 (2020) ➲ C.B.Li, G.L.Zhang, C.X.Yuan et al., „ *New level scheme and shell model description of ^{212}Rn*".

✓ Nucl. Inst.&Meth. A 971 164030 (2020) ➲ M.Rocchini, K.Hadynska-Klek, A.Nannini et al., *SPIDER: A Silicon PIe DEtectoR for low-energy Coulomb-excitation measurements*"

✓ Acta Phys.Pol. B51, 683(2020) ➲ G. Gosta, S. Ceruti, A. Mentana et al., *Isospin Symmetry in the ^{60}Zn Nucleus*"

✓ Phys. Scr. 95 024005 (2020) ➲ A Nannini, M Rocchini, K. Hadyńska-Klęk et al., *Coulomb excitation studies at LNL with the SPIDER-GALILEO set-up*"

✓ Nucl. Sci. Tech. 31, 49 (2020) ➲; Li, J., Su, X., Zhang, G et al., *Energy calibration of HPGe detector using the high-energy characteristic γ-rays in ^{13}C formed in ^{6}Li + ^{12}C reaction*"

✓ Phys. Lett. B 795, 241 (2019) ➲ C.M. Petrache, P.M. Walker, S. Guo et al., „*Diversity of shapes and rotations in the γ-soft ^{130}Ba nucleus: First observation of a t-band in the A=130 mass region*

✓ Nucl. Inst.&Meth. A 927 81 (2019) ➲ J.J. Valiente-Dobón, G. Jaworski, A. Goasduff et al., „*NEDA—NEutron Detector Array*".

✓ Phys. Rev. C 014307 (2019) ➲ Y. H. Qiang, C. M. Petrache, S. Guo et al., *dentification of high-K rotation in $^{130}\mathrm{Ba}$: Testing the consistency of electromagnetic observables*"

✓ Nucl. Inst.&Meth. A 920 95 (2019) ➲ C. Müller-Gatermann, F. von Spee, A. Goasduff et al., *A new dedicated plunger device for the GALILEO γ-ray detector array*"

✓ Chin.Phys.C 43, 104102 (2019) ➲ Y.-F.Lv, J.-B.Lu, G.-L.Zhang et al., *Low-lying states of $^{92,93}Nb$ excited in the reactions induced by the weakly-bound nucleus ^{6}Li near the Coulomb barrier*"

✓ Nucl. Inst.&Meth. A 916 238 (2018) ➲ P.-A. Söderström, G. Jaworski, J.J. Valiente-Dobón et al., *Neutron detection and γ-ray suppression using artificial neural networks with the liquid scintillators BC-501A and BC-537*"

✓ Eur. Phys. J. A 54 209 (2018) ➲ N. Cieplicka-Oryńczak, D. Mengoni, M. Ciemała, *Towards the lowest-energy limit for light ions identification with silicon pixel-type detectors*"

✓ Nucl. Inst.&Meth. A 914 64 (2019) ➲ S.P. Hu, G.L. Zhang et al., „*A powerful combination measurement for exploring the fusion reaction mechanisms induced by weakly bound nuclei*"

✓ Phys. Rev. C 97, 014611 (2018) ➲ G. L. Zhang, G. X. Zhang, S. P. Hu et al., „*One-neutron stripping processes to excited states of $^{90}Y^{*}$ in the $^{89}Y(^{6}Li,^{5}Li)^{90}Y^{*}$ reaction*"

✓ Physics Letters B 772, 359 (2017) ➲ A. Gottardo, D. Verney, I. Deloncle et al., „*Unexpected high-energy γ emission from decaying exotic nuclei*"

✓ Phys. Rev. C 95, 064322 (2017) ➲ R. Caballero-Folch, C. Domingo-Pardo, J.L. Taín „*Beta-decay half-lives, β-delayed neutron emission probabilities for several isotopes of Au, Hg, Tl, Pb„ Bi, beyond N=126*"

✓ Phys. Part. Nuclei 48, 922–926 (2017) ➲ Sobolev, Y.G., Penionzhkevich, Y.E., Aznabaev, D. et al. „*Experimental study of the energy dependence of the total cross section for the ^{6}He + natSi and ^{9}Li + natSi reactions.* "

✓ Phys.Rev.Lett. 116, 182501 (2016) ➲ A. Gottardo, D. Verney, C. Delafosse et al., „*First evidence of shape coexistence in the ^{78}Ni region: intruder 0+ state in ^{80}Ge*"

✓ Phys.Rev.Lett. 117, 012501 (2016) ➲ R. Caballero-Folch, C. Domingo-Pardo, J.L. Taín et al, „*First Measurement of Several β-Delayed Neutron Emitting Isotopes Beyond N = 126*"

✓ Phys.Rev. C 93, 064308 (2016) ➲ P.Morfouace, S.Franchoo, K.Sieja et al., „*Single-particle strength in neutron-rich ^{69}Cu from the $^{70}Zn(d,\ ^{3}He)^{69}Cu$ proton pick-up reaction*"

✓ Phys. Rev. C, vol. 91, p. 064317 (2015) ➲ A. Etile, D. Verney, N. N. Arsenyev et al., „*Low-lying intruder, tensor-driven structures in ^{82}As revealed by β-decay at a new movable-tape-based experimental setup*".

Conference proceedings (7)

✓ **J. Phys.: Conf. Ser. 1686 012028 (2020)** ➲ A.P. Severyukhin, A.P. Severyukhin, N.N. Arsenyev and D. Testov „*Two-phonon structure of the neutron-rich nuclei*"

✓ **Phys.Scr. 95, 24005 (2020)** ➲ A. Nannini, M. Rocchini,K. Hadyńska-Klęk et al., „*Coulomb excitation studies at LNL with the SPIDER-GALILEO set-up*"

✓ **Acta Phys. Pol. B50, 585 (2019)** ➲ G. Jaworski, A. Goasduff, F.J. Egea Canet et al., „*The first neutron multiplicity filter NEDA and its first physics campaign with AGATA* "

✓ **EXON 2018, Proceedings, in press** arXiv.org ➲ **D. Testov**, J.J. Valiente-Dobón, D. Mengoni et al., „*High resolution γ-ray spectroscopy using GALILEO array*"

✓ **Phys.Scr. 92, 074001 (2017)** ➲ M.Rocchini, K.Hadynska-Klek, A.Nannini et al., „*First measurement with a new setup for low-energy Coulomb excitation studies at INFN LNL*"

✓ **Acta Phys. Pol. B48, 331 (2017)** ➲ M.Siciliano, J.J.Valiente-Dobon, A.Goasduff et al, „*Study of Quadrupole Correlations in N=Z=50 Region via Lifetime Measurements*"

✓ **Proc., World Scientific, p.645 (2015)** ➲ Intern. Symposium Exotic Nuclei, Kaliningrad, 2015, **D. Testov**, D. Verney, B. Roussiere, „*Study of ^{82,83}Ga produced at ALTO with neutron detector TETRA*"