

CURRICULUM VITAE

STEFAN LALKOVSKI

Researcher unique identifiers: **ORCID:** 0000-0003-3069-9708

Scopus: 7801634080

Address: 5 James Bourchier blvd

Faculty of Physics

Sofia University “St. Kl. Ohridski”

Sofia 1164

Bulgaria

e-mail: s.lalkovski@phys.uni-sofia.bg

mobile: +359 889 335 460

Web site: nsg.phys.uni-sofia.bg

□ EDUCATION

- 2004 PhD in Nuclear Physics
Subject: *High-Spin states in $^{108,110}\text{Pd}$ nuclei, produced as fission fragments. Ground-gamma band mixing effects*
Faculty of Physics/Sofia University “St. Kl. Ohridski”, Bulgaria
PhD Supervisor: Assoc.Prof.Dr A. Minkova (Faculty of Physics, Sofia University)
PhD Advisor: Prof.Dr. N.Minkov (INRNE, BAS, Bulgaria)
- 1998 Master Thesis in Nuclear and Particle Physics
Subject: *Heavy ion reactions dynamics. Fusion/Evaporation reactions and energy dissipation mechanisms*
Faculty of Physics/Sofia University “St. Kl. Ohridski”, Bulgaria

□ CURRENT POSITION

- 2017 – present Associate Professor
Faculty of Physics/Sofia University “St. Kl. Ohridski”, Bulgaria

□ PREVIOUS POSITIONS

- 2014 – 2016 UK NuSTAR Project Manager
Physics Department, University of Surrey, Guildford ,United Kingdom
- 2008 – 2017 Head Assistant professor
Faculty of Physics/Sofia University “St. Kl. Ohridski”, Bulgaria
- 2005 – 2008 Senior assistant professor
Faculty of Physics/Sofia University “St. Kl. Ohridski”, Bulgaria
- 2003 – 2005 Assistant professor
Faculty of Physics/Sofia University “St. Kl. Ohridski”, Bulgaria

□ FELLOWSHIPS

- 2022 Aug.-Oct. Fullbright Researcher, Argonne National Laboratory, USA
- 2006 – 2008 Research officer (2006/7), Research fellow (2007/8)
School of Engineering and Technology/University of Brighton/United Kingdom

☐ **SHORT TERM VISITS**

2015/2016 two months @ ANL, USA
2011 three months @ ANL, USA
2009 three months @ ANL, USA
2007 three months @ ANL, USA
2007/2008 three months @ GANIL, France
2006 three months @ IKP University of Cologne, Germany

☐ **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2007– 2021 3 PhD Students (Stanimir Kisiov, Zhulieta Toneva, Desislava Ivanova) and
6 Master Students (Faculty of Physics/Sofia University)
2014-2016 Working experience with postdoctoral fellow as part of the UK NuSTAR Project, UK
2006-2008 Working experience with graduate students as part of the Nuclear physics group at the
Brighton university, UK

☐ **TEACHING ACTIVITIES**

2021 – 2022 Lecture course on *Atomic and nuclear physics*; Lecture course on *Atomic physics and interaction of radiation with matter*, Sofia University, Bulgaria, **role:** lecturer
2008 – present *Nuclear astrophysics; Probability and statistics for physicists; Geometrical optics*, Sofia University, Bulgaria, **role:** lecturer
2006 – 2008 *Science lab work*, Brighton University, United Kingdom, **role:** assistant
2003 – 2006 *Atomic physics practicum; Nuclear physics practicum*, Sofia University, Bulgaria, **role:** assistant

☐ **OTHER RESPONSIBILITIES**

2021 – present Chair of the BSc Diploma Thesis defense commission “Nuclear Energy and Nuclear Technologies”, Faculty of Physics, Sofia University
2020 – present Head of COSMOS branch of the Bulgarian Union of Physicists
2018 – present Member of the Faculty Committee, Faculty of Physics, Sofia University, Bulgaria
2018 – present Member of the Faculty Educational Committee, Faculty of Physics, Sofia University, Bulgaria

☐ **REVIEWING ACTIVITIES**

2019 – present Jury member of associate professor and head assistantship contests at Sofia University (Bulgaria), Institute for Nuclear Research and Nuclear Energy (Bulgaria), New Bulgarian University (Bulgaria)
2019 – present Reviewer for the Bulgarian Science Fund
2016 – present Reviewer in Physical Review C, Nuclear Instruments and Methods for Physics Research, Nuclear Data Sheets, Acta Physica Polonica B, Journal of Physics Conference Series, Bulgarian Journal of Physics
2005 – present Nuclear Data Evaluator for the NSDD network
2003 – present Reviewer of a number of BSc and MSc theses

☐ **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2018 – present Member of the Bulgarian Union of Physicists

☐ **LANGUAGES**

English (Understanding – C1, Reading - C1, Writing – C1)
French (Understanding – B1/B2, Reading - B1/B2, Writing – B1/B2)
Bulgarian – native

☐ **CERTIFICATES**

Prince2 Practitioner Certificate in Project Management (PEOPLECERT, Sept 22 2015)
Prince2 Foundation Certificate in Project Management (PEOPLECERT, Sept. 8 2015)

□ LIST OF SELECTED PUBLICATIONS

1. **Lalkovski, S.**, Timar, J., Elekes, Z.,
Nuclear Data Sheets for A=105,
(2019) Nuclear Data Sheets 161, 1
2. **Lalkovski, S.**, Stefanova, E. A., Kisyov, S., Korichi, A., Bazzacco, D., Bergström, M., Görgen, A., Herskind, B., Hübel, H., Jansen, A., Khoo, T. L., Kutsarova, T., Lopez-Martens, A., Minkova, A., Podolyák, Zs., Schönwasser, G. and Yordanov, O.,
Structure of the neutron mid-shell nuclei $^{111,113}\text{Ag}_{64,66}$
(2017) Physical Review C - Nuclear Physics 96, art. no. 044328
3. **Lalkovski, S.**, Kondev, F.G.,
Nuclear Data Sheets for A=112,
(2015) Nuclear Data Sheets 124 pp. 157-412
4. **Lalkovski, S.**, Ivanova, D., Stefanova, E.A., Korichi, A., Petkov, P., Kownacki, J., Kutsarova, T., Minkova, A., Bazzacco, D., Bergström, M., Görgen, A., Herskind, B., Hübel, H., Jansen, A., Kisyov, S., Khoo, T.L., Kondev, F.G., Lopez-Martens, A., Podolyák, Z., Schönwasser, G., Yordanov, O.,
Coexisting structures in ^{105}Ru ,
(2014) Physical Review C - Nuclear Physics 89 (6), art. no. 064312
5. **Lalkovski, S.**, Bruce, A.M., Denis Bacelar, A.M., Górski, M., Pietri, S., Podolyák, Z., Bednarczyk, P., Cáceres, L., Casarejos, E., Cullen, I.J., Doornenbal, P., Farrelly, G.F., Garnsworthy, A.B., Geissel, H., Gelletly, W., Gerl, J., Grębosz, J., Hinke, C., Ilie, G., Ivanova, D., Jaworski, G., Kisyov, S., Kojouharov, I., Kurz, N., Minkov, N., Myalski, S., Palacz, M., Petkov, P., Prokopowicz, W., Regan, P.H., Schaffner, H., Steer, S., Tashenov, S., Walker, P.M., Wollersheim, H.J.,
Submicrosecond isomer in $^{117}\text{Rh}_{72}$ and the role of triaxiality in its electromagnetic decay rate,
(2013) Physical Review C - Nuclear Physics, 88 (2), art. no. 024302
6. **Lalkovski, S.**, Bruce, A.M., Jungclaus, A., Górski, M., Pfützner, M., Cáceres, L., Naqvi, F., Pietri, S., Podolyák, Zs., Simpson, G.S., Andgren, K., Bednarczyk, P., Beck, T., Benlliure, J., Benzoni, G., Casarejos, E., Cederwall, B., Crespi, F.C.L., Cuenca-García, J.J., Cullen, I.J., Denis Bacelar, A.M., Detistov, P., Doornenbal, P., Farrelly, G.F., Garnsworthy, A.B., Geissel, H., Gelletly, W., Gerl, J., Grębosz, J., Hadinia, B., Hellström, M., Hinke, C., Hoischen, R., Ilie, G., Jaworski, G., Jolie, J., Khaplanov, A., Kisyov, S., Kmiecik, M., Kojouharov, I., Kumar, R., Kurz, N., Maj, A., Mandal, S., Modamio, V., Montes, F., Myalski, S., Palacz, M., Prokopowicz, W., Reiter, P., Regan, P.H., Rudolph, D., Schaffner, H., Sohler, D., Steer, S.J., Tashenov, S., Walker, J., Walker, P.M., Weick, H., Werner-Malento, E., Wieland, O., Wollersheim, H.J., Zhekova, M.,
Core-coupled states and split proton-neutron quasiparticle multiplets in $^{122-126}\text{Ag}$,
(2013) Physical Review C - Nuclear Physics, 87 (3), art. no. 034308
7. **Lalkovski, S.**, Isacker, P.V.,
IBM-1 calculations towards the neutron-rich nucleus ^{106}Zr
(2009) Physical Review C - Nuclear Physics, 79 (4), art. no. 044307
8. **Lalkovski, S.**, Ilieva, S., Minkova, A., Minkov, N., Kutsarova, T., Lopez-Martens, A., Korichi, A., Hübel, H., Görgen, A., Jansen, A., Schönwasser, G., Herskind, B., Bergström, M., Podolyák, Zs.,
Octupole collectivity in $^{98,100,102}\text{Mo}$
(2007) Physical Review C - Nuclear Physics, 75 (1), art. no. 014314
9. **Lalkovski, S.**, Minkov, N.,
Evolution of collectivity in a ground- γ -band mixing scheme for even-even transitional nuclei,
(2005) Journal of Physics G: Nuclear and Particle Physics, 31 (5), pp. 427-444
10. **Lalkovski, S.**, Minkova, A., Porquet, M.-G., Bauchet, A., Deloncle, I., Astier, A., Buforn, N., Donadille, L., Dorvaux, O., Gall, B.P.J., Lucas, R., Meyer, M., Prévost, A., Redon, N., Schulz, N., Stężowski, O.,
Two-quasiparticle and collective excitations in transitional $^{108,110}\text{Pd}$ nuclei
(2003) European Physical Journal A, 18 (4), pp. 589-596.
11. **Lalkovski, S.**, Podolyák, Zs., Bentley, M., Bruce, A.M., Lazarus, I., Lemmon, R., Regan, P.H., Simpson, J.,
The UK NuSTAR project,
(2016) Acta Physica Polonica B, 47 (3), pp. 637-644.
12. **Lalkovski, S.**, Bruce, A.M., Bacelar, A.M.D., Górski, M., Pietri, S., Podolyák, Zs., Bednarczyk, P., Cáceres, L., Casarejos, E., Cullen, I.J., Doornenbal, P., Farrelly, G.F., Garnsworthy, A.B., Geissel,

- H., Gelletly, W., Gerl, J., Grębosz, J., Hinke, C., Ilie, G., Jaworski, G., Kisyov, S., Kojouharov, I., Kurz, N., Myalski, S., Palacz, M., Prokopowicz, W., Regan, P.H., Schaffner, H., Steer, S., Tashenov, S., Walker, P.M., Wollersheim, H.J., Zhekova, M.
Single-particle isomeric states in ^{121}Pd and ^{117}Ru
 (2012) Journal of Physics: Conference Series, 366 (1), art. no. 012029
13. Ivanova, D., **Lalkovski, S.**, Costache, C., Kisyov, S., Mihai, C., Marginean, N., Petkov, P., Atanasova, L., Bucurescu, D., Cakirli, R.B. Carpenter, M.P., Casten, R.F., Cata-Danil, Gh., Cata-Danil, I., Deleanu, D., Filipescu, D., Florea, N., Gheorghe, I., Ghita, D. Glodariu, T., Kondev, F.G., Lica, R., Marginean, R., Negret, A., Pascu, S., Sava, T., Stefanova, E.A., Stroe, L., Suliman, G., Suvaila, R., Yordanov, O., Zamfir, N.V.
Structure of the low-lying states in $^{99}, ^{101}, ^{103}, ^{105}\text{Pd}$
 (2022) Physical Review C – Nuclear Physics, 105, art no. 034337
 14. Rudigier, M., Podolyák, Zs., Regan, P.H., Bruce A.M., **Lalkovski, S.**, Canavan, R.L., Gamba, E.R., Roberts, O., Burrows, I., Cullen, D.M., Fraile, L.M., Gerhard, L., Gerl, J., Gorska, M., Grant, A., Jolie, J., Karayonchev, V., Kurz, N., Korten, W., Lazarus, I.H., Nita, C.R., Pucknell, V.F.E., Régis, J.-M., Schaffner, H., Simpson, J., Singh, P., Townsley, C.M., Smith, J.F., Vesic, J.,
FATIMA — FAsT TIMing Array for DESPEC at FAIR,
 (2020) Nuclear Instruments and Methods in Physics Research A; Accelerators, Spectrometers, Detectors and Associated Equipment, 969, art no. 163967
 15. Gamba, E.R., Bruce, A.M., **Lalkovski, S.**, Rudigier, M., Bottoni, S., Carpenter, M.P., Zhu, S., Anderson, J.T., Ayangeakaa, A.D., Berry, T.A., Burrows, I., Carmona-Gallardo, M., Carroll, R.J., Copp, P., Cullen, D.M., Daniel, T., Fernandez-Martinez, G., Greene, J.P., Gurgi, L.A., Hartley, D.J., Ilieva, R., Ilieva, S., Kondev, F.G., Kroll, T., Lane, G.J., Lauritsen, T., Lazarus, I., Lotay, G., Nita, C.R., Podolyak, Zs., Pucknell, V., Reed, M., Regan, P.H., Rohrer, J., Sethi, J., Seweryniak, D., Shand, C.M., Simpson, J., Smolen, M., Stefanova, E.A., Vedia, V., Yordanov, O.,
Fast-timing measurements in the ground-state band of ^{114}Pd
 (2019) Physical Review C – Nuclear Physics, 100 art no. 044309
 16. Stefanova, E.A., **Lalkovski, S.**, Korichi, A., Kutsarova, T., Lopez-Martens, A., Xu, F.R., Liu, H.L., Kisyov, S., Minkova, A., Bazzacco, D., Bergström, M., Görgen, A., Hannachi, F., Herskind, B., Hübel, H., Jansen, A., Khoo, T.L., Podolyák, Z., Schönwasser, G.,
Observation of positive-parity bands in ^{109}Pd and ^{111}Pd : Enhanced γ softness,
 (2012) Physical Review C - Nuclear Physics, 86 (4), art. no. 044302
 17. Kisyov, S., **Lalkovski, S.**, Marginean, N., Bucurescu, D., Atanasova, L., Balabanski, D.L., Cta-Danil, G., Cta-Danil, I., Daugas, J.-M., Deleanu, D., Detistov, P., Filipescu, D., Georgiev, G., Ghiț, D., Glodariu, T., Jolie, J., Judson, D.S., Lozeva, R., Marginean, R., Mihai, C., Negret, A., Pascu, S., Radulov, D., Régis, J.-M., Rudigier, M., Sava, T., Stroe, L., Suliman, G., Zamfir, N.V., Zell, K.O., Zhekova, M.
In-beam fast-timing measurements in $^{103}, ^{105}, ^{107}\text{Cd}$,
 (2011) Physical Review C - Nuclear Physics, 84 (1), art. no. 014324
 18. Kondev, F.G., **Lalkovski, S.**,
Nuclear Data Sheets for A = 207,
 (2011) Nuclear Data Sheets, 112 (3), pp. 707-853.
 19. Mărginean, N., Balabanski, D.L., Bucurescu, D., **Lalkovski, S.**, Atanasova, L., Căta-Danil, G., Căta-Danil, I., Daugas, J.M., Deleanu, D., Detistov, P., Deyanova, G., Filipescu, D., Georgiev, G., Ghiță, D., Gladnishki, K.A., Lozeva, R., Glodariu, T., Ivașcu, M., Kisyov, S., Mihai, C., Mărginean, R., Negret, A., Pascu, S., Radulov, D., Sava, T., Stroe, L., Suliman, G., Zamfir, N.V.,
In-beam measurements of sub-nanosecond nuclear lifetimes with a mixed array of HPGe and $\text{LaBr}_3\text{:Ce}$ detectors,
 (2010) European Physical Journal A, 46 (3), pp. 329-336
 20. Bruce, A.M., **Lalkovski, S.**, Denis Bacelar, A.M., Górská, M., Pietri, S., Podolyák, Zs., Shi, Y., Walker, P.M., Xu, F.R., Bednarczyk, P., Cáceres, L., Casarejos, E., Cullen, I.J., Doornenbal, P., Farrelly, G.F., Garnsworthy, A.B., Geissel, H., Gelletly, W., Gerl, J., Grębosz, J., Hinke, C., Ilie, G., Jaworski, G., Kojouharov, I., Kurz, N., Myalski, S., Palacz, M., Prokopowicz, W., Regan, P.H., Schaffner, H., Steer, S., Tasheno, S., Wollersheim, H.J.,
Shape coexistence and isomeric states in neutron-rich ^{112}Tc and ^{113}Tc ,
 (2010) Physical Review C - Nuclear Physics, 82 (4), art. no. 044312

21. Kondev, F.G., **Lalkovski, S.**,
Nuclear Data Sheets for A = 200,
(2007) Nuclear Data Sheets, 108 (7), pp. 1471-1582.