

Curriculum Vitae

PERSONAL INFORMATION

Name and surname	Suzana Szilner
Academic title	PhD Physics
Year and institution of PhD obtained	2001, University of Zagreb and University Louis Pasteur, Strasbourg
Address	Ruđer Bošković Institute Division of Experimental Physics Zagreb, Croatia
Phone	01 46 80 204
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Personal web page	http://www.irb.hr/eng/People/Suzana-Szilner
Citizenship	Croatian
Date and place of birth	31.01.1967. Osijek

WORK EXPERIENCE

Date (from - until)	2008 - today
Institution	Ruđer Bošković Institute
Position	Senior research associate
Work field	Experimental nuclear physics
Date (from - until)	2003 - 2008
Institution	Ruđer Bošković Institute
Position	Research associate
Work field	Experimental nuclear physics
Date (from - until)	2001 - 2003
Institution	Ruđer Bošković Institute
Position	Senior assistant
Work field	Experimental nuclear physics
Date (from - until)	1998 - 2001
Institution	Ruđer Bošković Institute
Position	Assistant
Work field	Experimental nuclear physics
Date (from - until)	1995 - 1998
Institution	Ruđer Bošković Institute
Position	Junior assistant
Work field	Experimental nuclear physics

EDUCATION (CHRONOLOGICALLY)

Date	2001
Place	Zagreb
Institution	Faculty of Science, University of Zagreb and University Louis Pasteur, Strasbourg
Title of	Ph.D. in nuclear physics

qualification awarded	
Date	1998
Place	Zagreb
Institution	Faculty of Science, University of Zagreb
Title of qualification awarded	M.Sc. in nuclear physics
qualification awarded	
Date	1993
Place	Zagreb
Institution	Faculty of Science, University of Zagreb
Title of qualification awarded	B.Sc in physics

TRAINING

Subject and skills covered	Year	2001 - 2003
	Place	Padova
	Institution	INFN-Laboratori Nazionali di Legnaro
Subject and skills covered	Post-doctoral fellowship, experimental nuclear physics	
Subject and skills covered	Year	1998 - 2000 (~4 months per year)
	Place	Strasbourg
	Institution	Institut de Recherches Subatomiques
Subject and skills covered	experimental work for Ph.D. Thesis, experimental nuclear physics	
Subject and skills covered	Year	1995
	Place	Strasbourg
	Institution	Institut de Recherches Subatomiques
Subject and skills covered	experimental work for M.Sc. Thesis, experimental nuclear physics	

LANGUAGES

MOTHER TONGUE	Croatian
ENGLISH LANGUAGE	
Speaking	good
Writing	good
Reading	very good

OTHER FOREIGN LANGUAGES

Language	Italian
Speaking	basic
Writing	basic
Reading	good
Language	French
Speaking	basic
Writing	basic
Reading	good

RESEARCH AND OTHER PROJECTS

(CHRONOLOGICALLY; LEADER AND ASSOCIATES; FUNDING SOURCE)

Project leader of the MSES project: *Nuclear structure and reaction: experimental approach*, since 2007.

Collaborator of the FP7 project CLUNA *Clustering phenomena in nuclear physics: strengthening of the Zagreb - Catania - Birmingham partnership* (FP7-REGPOT-2007-3), 2008 - 2011.

Collaborator of the FP7 project PD *Particle Detectors: Upgraded Facility for Development of Silicon and Diamond Particle Detector Systems* (FP7-REGPOT-2010-5), 2010 - 2014.

Collaborator of the Croatian Science Foundation project: EuroGENESIS, *Origin of the Elements and Nuclear History of the Universe within Physics of compact objects: explosive nucleosynthesis and evolution*, 2009 - 2013.

I was project leader of the bilateral project between Croatia and France (Program "Cogito"

Partnership Hubert Curien), *Correlations in nuclei - nucleon pairs and clusters*, 2008 - 2010.
I was collaborator of the MSES project: *Heavy ion physics*, project leader Z. Basrak, 2001 -2007.

TEACHING

(CHRONOLOGICALLY; UNDERGRADUATE, GRADUATE , POSTGRADUATE STUDY PROGRAMMES)

Seminars within a course: Experimental methods in physics at the Physics Department of the University of Zagreb.

Postgraduate seminars with the subject in the experimental nuclear physics at the University of Zagreb.

MENTORSHIP OF DEFENDED DOCTORAL AND MASTER DISSERTATIONS AND TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS

(CHRONOLOGICALLY)

2009, diploma thesis (I. Morić) Faculty of Sciences, University of Zagreb.

Ongoing Ph. D. theses (M. Varga Pajtler and T. Mijatović), University of Zagreb.

VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS

(CHRONOLOGICALLY; ONLY VISITS LONGER THAN 3 MONTHS)

2003 - 2013, several months per year within Prisma-Clara/Agata collaboration at Laboratori Nazionali di Legnaro;

April - June 2006, invited professor at L. Pasteur University, Strasbourg;

2001 - 2003, INFN- Laboratori Nazionali di Legnaro, Padova, pos-doctoral fellow;

1998 - 2000, Institut de Recherches Subatomiques (IReS) several months per year within the convention between the University of Zagreb and L. Pasteur University, Strasbourg;

October - December 1998, LPC, Caen, within the Ph.D. students exchange program;

April - August 1995, IReS, experimental work within M. Sc. Thesis.

AWARDS AND RECOGNITIONS

(CHRONOLOGICALLY)

2009, MSOS award for the scientific excelence

ORGANIZATIONAL SKILLS AND COMPETENCES

(CHRONOLOGICALLY; ORGANIZATION OF HOME AND INTERNATIONAL SCIENCE EVENTS)

Co-chairman of the international conferences "Nuclear Structure and Dynamics", 2009, Dubrovnik (NSD09) and 2012, Opatija (NSD12), Croatia.

Co-chairman of the international conference "Highlights in Heavy-Ion Physics, A Symposium in Honour of Nikola Cindro", 2011, in Split;

Member of the organizing committee of the Scientific meetings of the Croatian Physical Society, 2009, and 2013, Primošten, Croatia;

Member of the organizing committee of the international conferences CLUSTER99, 1999, Rab, Croatia, and FUSION06, 2006, Venice, Italy.

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

(CHRONOLOGICALLY; HOME AND INTERNATIONAL ORGANIZATIONS AND BODIES)

Croatian Physical Society, European Physical Society

COMMISSIONS, COMMITTEES, BOARDS AND WORK GROUPS

(CHRONOLOGICALLY; HOME AND INTERNATIONAL)

Member of Board of governors of Ruđer Bošković Institute (2008 - 2012)

Member of Scientific Steering Committee of the European Nuclear Science and Applications Research within the ENSAR2 project (since 2013).

PAPERS

(CHRONOLOGICALLY; RESEARCH BOOKS, HOME AND INTERNATIONAL RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEDINGS; PLEASE WRITE THEIR IMPACT FACTOR)

Web of Scence (10.10.2013.): 104 scinetific publications, 1651 citations (1347 without self-citation), h-index=14. The most of them have been published in Phys. Rev. C (about 40, If=3.308). Part of them (about 5) have been published as letters (Phys. Lett. B with IF=3.955, and Phys. Rev. Lett. With IF=7.370).

A list of scinetific publications that best represent my area of research:

- 1) M.P. Nicoli, F. Haas, R.M. Freeman, N. Aissaoui, C. Beck, A. Elanique, F. Nouicer, A. Morsad, S. Szilner, Z. Basrak, M.E. Brandan and G.R. Satchler: *The elastic scattering of 16O+16O at energies E/A between 5 and 8 MeV: strong energy dependence of the absorption*, Phys. Rev. C 60 (1999) 064608. (cited: 57)
- 2) A. Gadea, D.R. Napoli, G. de Angelis, R. Menegazzo, A.M. Stefanini, L. Corradi, M. Axiotis, L. Berti, E. Fioretto, T. Kroell, A. Latina, N. Marginean, G. Maron, T. Martinez, D. Rosso, C. Rusu, N. Toniolo, S. Szilner, M. Trotta, D. Bazzacco, S. Beghini, M. Bellato, F. Brandolini, E. Farnea, R. Isocrate, S.M. Lenzi, S. Lunardi, G. Montagnoli, P. Pavan, C.R. Alvarez, F. Scarlassara, C.A. Ur, N. Blasi, A. Bracco, F. Camera, S. Leoni, B. Million, M. Pignanelli, G. Pollarolo, A. DeRosa, C. Inglima, M. La Commara, G. La Rana, D. Pierroutsakou, M. Romoli, M. Sandoli, P.G. Bizzeti, A.M. Bizzeti-Sona, G. Lo Bianco, C.M. Petrache, A. Zucchiatti, P. Cocconi, B. Quintana, C. Beck, D. Curien, G. Duchene, F. Haas, P. Medina, P. Papka, J. Durell, S.J. Freeman, A. Smith, B. Varley, K. Fayz, V. Pucknell, J. Simpson, W. Gelletly, P. Regan: *Coupling a CLOVER detector array with the PRISMA magnetic spectrometer: Investigation of moderately neutron-rich nuclei populated by multinucleon transfer and deep inelastic collisions*, Eur. Phys. J. A 20 (2004) 193-197. (cited: 121)
- 3) S. Szilner, L. Corradi, G. Pollarolo, S. Beghini, B.R. Behera, E. Fioretto, A. Gadea, F. Haas, A. Latina, G. Montagnoli, F. Scarlassara, A.M. Stefanini, M. Trotta, A.M. Vinodkumar, Y. Wu: *Multinucleon transfer processes in 40Ca+208Pb*, Phys. Rev. C 71 (2005) 044610/1-8. (cited: 32)
- 4) S. Beghini, L. Corradi, E. Fioretto, A. Gadea, A. Latina, G. Montagnoli, F. Scarlassara, A.M. Stefanini, S. Szilner, M. Trotta and A.M. Vinodkumar: *The Focal Plane Detector of the magentic spectrometer PRISMA*, Nucl. Instr. and Meth. in Phys. Res. A 551 (2005) 364-374. (cited:39)
- 5) S. Szilner, C.A. Ur, L. Corradi, N. Marginean, G. Pollarolo, A.M. Stefanini, S. Beghini, B.R. Behera, E. Fioretto, A. Gadea, B. Guiot, A. Latina, P. Mason, G. Montagnoli, F. Scarlassara, M. Trotta, G. de Angelis, F. Della Vedova, E. Farnea, F. Haas, S. Lenzi, S. Lunardi, R. M>arginean, R. Menegazzo, D.R. Napoli, M. Nespolo, I.V. Pokrovsky, F. Recchia, M. Romoli, M.-D. Salsac, N. Soic, and J. J. Valiente-Dobon: *Multinucleon transfer reactions in closed-shell nuclei*, Phys. Rev. C 76 (2007) 024604/1-9. (cited: 45)
- 6) J.J. Valiente-Dobon, D. Mengoni, A. Gadea, E. Farnea, S.M. Lenzi, S. Lunardi, A. Dewald, T. Pissulla, S. Szilner, A.M. Stefanini, R. Broda, F. Recchia, A. Algora, L. Angus, D. Bazzacco, G. Benzoni, P.G. Bizzeti, A.M. Bizzeti-Sona, P. Boutachkov, L. Corradi, F. Crespi, G. de Angelis, E. Fioretto, A. Gorgen, M. Gorska, A. Gottardo, E. Grodner, A. Howard, W. Krolas, S. Leoni, P. Mason, R. Menegazzo, D. Montanari, G. Montagnoli, D.R. Napoli, A. Obertelli, T. Pawlat, B. Rubio, E. Sahin, F. Scarlassara, J.F. Smith, D. Steppenbeck, C.A. Ur, P.T. Wady, J. Wrzesinski, E. Maglione, I. Hamamoto: Lifetime measurements of the neutron-rich N=30 isotones 50Ca and 51Sc: Orbital dependence of effective charges in the fp shell, Phys. Rev. Lett. 102 (2009) 242502/1-5. (cited:39)
- 7) L. Corradi, G. Pollarolo, S. Szilner: *Multinucleon transfer processes in heavy-ion reactions*, Journal of Physics G - Nuclear and Particle Physics 36 (2009) 113101/1-43. (cited:57)
- 8) S. Szilner, L. Corradi, F. Hass, D. Lebhertz, G. Pollarolo, C.A. Ur, L. Angus, S. Beghini, M. Bouhelal, R. Chapman, E. Caurier, E. Farnea, E. Fioretto, A. Gadea, A. Goasduff, D. Jelavic Malenica, V. Kumar, S. Lunardi, N. Marginean, P. Mason, D. Mengoni, G. Montagnoli, F. Nowacki, F. Recchia, E. Sahin, M.-D. Salsac, F. Scarlassara, R. Silvestri, J.F. Smith, N. Soic, A.M. Stefanini, J.J. Valienete-Dobon: *Interplay between single-particle and collective excitations in argon isotopes populated by transfer reactions*, Phys. Rev. C 84 (2011) 014325/1-7. (cited:18)
- 9) L. Corradi, S. Szilner, G. Pollarolo, G. Colo, P. Mason, E. Farnea, E. Fioretto, A. Gadea, F. Haas, D. Jelavic Malenica, N. Marginean, C. Michelagnoli, G. Montagnoli, D. Montanari, F. Scarlassara, N. Soic, A.M. Stefanini, C.A. Ur, J.J. Valiente-Dobon: *Single and pair neutron transfers at sub barrier energies*, Phys. Rev. C 84 (2011) 034603/1-10. (cited: 18)
- 10) S. Szilner, L. Corradi, F. Haas, G. Pollarolo, L. Angus, S. Beghini, M. Bouhelal, R. Chapman, E. Caurier, S. Courtin, E. Farnea, E. Fioretto, A. Gadea, A. Goasduff, D. Jelavic Malenica, V. Kumar, S. Lunardi, N. Marginean, D. Mengoni, T. Mijatovic, G. Montagnoli, F. Recchia, E. Sahin, M.-D. Salsac, F. Scarlassara, J. F. Smith, N. Soic, A. M. Stefanini, C. A. Ur, and J. J. Valiente-Dobon: *Structure of chlorine isotopes populated by heavy ion transfer reactions*, Phys. Rev. C 87 (2013) 054322/1-12.

OTHER RESEARCH ACTIVITIES

(CHRONOLOGICALLY; CHIEF EDITOR OR EDITOR OF RESEARCH BOOK, HOME AND INTERNATIONAL RESEARCH JOURNALS, HOME AND INTERNATIONAL CONFERENCE PROCEEDINGS AND OTHER)

Co-editor of the AIP Conf. Proc. No. 1165: M.Milin, T.Nikšić, S.Szilner, D.Vretenar: *Proceedings of the International Conference „Nuclear Structure and Dynamics”*, American Institute of Physics, 2009.

Co-editor of the AIP Conf. Proc. No. 1491: T.Nikšić, M.Milin, S.Szilner, D.Vretenar: *Proceedings of*

the International Conference „Nuclear Structure and Dynamics II”, American Institute of Physics, 2012.

Co-editor of the AIP conference proceedings No. 853, international conference FUSION06.

Invited speaker at 8 international conferences.

Spokesperson of more than 10 experiments at international facilities (INFN-LNL, Legnaro, Italy; ISOLDE, CERN, Geneve, Switzerland; HH National Institute for Physics and Nuclear Engineering, Bucharest, Romania).

COMPUTER SKILLS

OS: Linux, Unix, Windows

Languages: Fortran.

Standard software used in experimental nuclear physics: PAW, GSORT ...

OTHER IMPORTANT SKILLS AND COMPETENCES

I participated to the more than 60 nuclear physics experiments at different accelerator facilities in Europe: LNL-INFN, Legnaro and LNS-INFN, Catania, Italy, VIVITRON accelerator, IReS, Strasbourg, Ganil, Caen, and IPNO, Orsay, France, UCL, Louvain-la-Neuve, Belgium, Horia Hulubei National Institute for Physics and Nuclear Engineering, Bucharest, Romania, and Dynamitron accelerator at University of Stuttgart, Germany.

I actively participated to the development and building of the focal plane detectors of the PRISMA spectrometer. I also actively participated to the PRISMA-CLARA/AGATA campaigns at INFN - LNL.

ADDITIONAL INFORMATION AND NOTES

I actively participated to the manifestation “Open days” at the Ruđer Bošković Institute, and to the exhibition “Irises – the Croatian flower: the view through science, culture and art”.

I'm co-author of the booklet “The world of the atomic nuclei” where the newest achievement of nuclear physics is presented in a popular way.