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Curriculum Vitae

(June 27, 2017)

Personal data	
Name	Daniel Reitzner
Nationality	Slovak
Date of Birth	26. May 1983
Place of Birth	Košice-Šaca, Czechoslovakia (now Slovakia)
Gender	Male
Work positions	
Apr. 2015–present	Marie Curie fellow (group of doc. Ziman), Research Center for Quantum Information Institute of Physics, Slovak Academy of Sciences
Aug. 2014–Mar. 2015	Researcher (group of doc. Ziman), Research Center for Quantum Information Institute of Physics, Slovak Academy of Sciences
Jan. 2014–May 2014	Fulbright Scholar, Department of Physics, Hunter College of CUNY, USA
Oct. 2013–Dec. 2013	Researcher (group of doc. Ziman), Research Center for Quantum Information Institute of Physics, Slovak Academy of Sciences (during period Jan. 2014–July 2014 on a leave without pay)
Aug. 2011–Sept. 2013	Researcher (group of Prof. Wolf), M5 — Mathematical Physics, Faculty for Mathematics Technische Universität München
Sept. 2010–Aug. 2011	Researcher (group of Prof. Bužek), Research Center for Quantum Information Institute of Physics, Slovak Academy of Sciences (during period Aug. 2011–Sept. 2013 on a leave without pay)

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Education	
Sept. 2006–Aug. 2010	PhD student under the supervision of Prof. RNDr. Vladimír Bužek, DrSc. Research Center for Quantum Information Institute of Physics, Slovak Academy of Sciences Field of study: General and mathematical physics, Quantum informa- tion processing Title of the thesis: <i>Utilisation of Scattering Quantum Walks in Searches on</i> <i>Highly Symmetric Graphs</i>
Apr. 2009	Faculty of Mathematics, Physics and Informatics, Comenius University, Bratislava Rerum Naturalium Doctor (RNDr.) in the field 4.1.1 Physics, specializa- tion Theoretical Physics Title of the rigor thesis: Quantum Walk Searches
Sept. 2004–Aug. 2006	Faculty of Science, Pavol Jozef Šafárik University in Košice Field of study: Physics, specialization Computational Physics Graduated in 2004 and received Magister degree (M.Sc. equivalent) un- der the supervision of doc. RNDr. Denis Horváth, CSc. Title of the thesis: <i>Monte Carlo Method in Construction of Large-scale Hamil-</i> <i>tonians of Selected Spin Systems</i>
Sept. 2002–Aug. 2004	Faculty of Science, Pavol Jozef Šafárik University in Košice Field of Study: Physics Graduated in 2004 and received Bachelor degree (B.Sc. equivalent)

Notable Research Visits

Nov. 2016	<i>Prof. mark Hillery,</i> Hunter College, The City University of New York, USA (2 weeks)
Nov. 2013	Prof. Giulio Chiribella, Tsinghua University, Beijing, China (1 week)
Apr. 2012	<i>Dr. Teiko Heinosaari,</i> Faculty of Mathematics and Natural Sciences, University of Turku, Finland (1 week)
Mar. 2012	Dr. Yasser Omar, SQIG, Department of Mathematics, Instituto Superior Técnico, Lisbon, Portugal (1 week)
Apr. 2011	<i>Dr. Teiko Heinosaari,</i> Faculty of Mathematics and Natural Sciences, University of Turku, Finland (1 week)
Jan. 2011	Dr. Rob Spekkens, Perimeter Institute, Canada (1 week)
Mar. 2009	Dr. Yasser Omar, SQIG, Department of Mathematics, Instituto Superior Técnico, Lisbon, Portugal (1 week)
Oct. 2008	Prof. Mark Hillery, Hunter College, The City University of New York, USA (1 month)

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Training	
Aug. 2014	QESS Summer School, Smolenice, Slovak Republic
Feb. 2010	46 th Karpacz Winter School of Theoretical Physics, Lądek Zdrój, Poland
Sept. 2009	V4 Summer School in Quantum information, Budmerice, Slovak Repub- lic
Aug. 2007	International Summer School in Quantum Information Processing and Control (QUIC 2007), Maynooth, Ireland
Feb. 2007	Summer School on Symplectic Geometry, Bratislava, Slovak Republic
Dec. 2006–July 2007	Soft skills trainee in Institute of Advanced Studies
Dec. 2006	Soft skills training, Budmerice, Slovak Republic
Aug. 2006	Quantum Information Processing IRC/QAP EC Summer School, Greg- ynog, Tregynon, Wales

Conferences attended with active participation

June 2017	14th Central European Quantum Information Processing Workshop, Smolenice, Slovakia Talk: <i>Navigating a Maze Using Quantum-Walk Searches</i>
Dec. 2016	Focus Meeting — Mathematical foundations of quantum thermodynam- ics, Smolenice, Slovakia Poster: <i>Incompatible measurements on Causal Networks</i>
Nov. 2016	Workshop of Quantum Simulation and QuantumWalks 2016, Prague, Czech Republic Talk: <i>Decoherence in Quantum Walk Searches</i>
June 2016	13th Central European Quantum Information Processing Workshop, Valtice, Czech Republic Poster: <i>Incompatible measurements on quantum causal networks</i>
Jan. 2016	Linear Matrix Inequalities, Semidefinite Programming and Quantum In- formation Theory 2016 Invited talk: <i>Compatibility of Quantum Testers</i>
Oct. 2015	Quantum Unconference, Menesjärvi, Finland
Sep. 2015	21st Conference of Slovak Physicists, Nitra, Slovakia Invited talk: <i>Quantum Searches by Quantum Walks</i>
June 2015	12th Central European Quantum Information Processing Workshop, Telč, Czech Republic Talk: <i>Noise Robustness of the Incompatibility of Quantum Measurements: In-</i> <i>compatibility as a Resource</i>

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Sep. 2014	Quantum Sequential Measurements and Classical Complexity (FQXi), Siegen, Germany Talk: <i>Compatibility: Noise robustness of incompatibility</i>
Oct. 2013	Noise Information & Complexity @ Quantum Scale, Erice, Italy Talk: <i>Fault-ignorant Quantum Search</i>
Sept. 2013	Workshop on "Incompatible Quantum Measurements", München, Ger- many (organizer) Talk: <i>Measuring non-coexistence of two projections</i>
June 2013	10th Central European Quantum Information Processing Workshop, Valtice, Czech Republic Talk: <i>Fault-ignorant Quantum Search</i>
Sept. 2012	COQUIT Workshop, Torino, Italy Talk: <i>Noisy Grover Search</i>
June 2012	9th Central European Quantum Information Processing Workshop, Smolenice, Slovakia Poster: <i>Incompatibility of Measurement Devices</i>
May 2012	Pécs Workshop on Quantum Information and Quantum Optics, Pécs, Hungary Invited talk: <i>Quantum Compatibility: When Two Measurements Come From</i> <i>One</i>
June 2011	8th Central European Quantum Information Processing Workshop, Zno- jmo, Czech Republic Poster: <i>Unambiguous Discrimination of grover Oracles</i>
June 2010	7th Central European Quantum Information Processing Workshop, Valtice, Czech Republic Talk: <i>Scattering quantum walks in searches for graph anomalies</i>
June 2009	6th Central European Quantum Information Processing Workshop, Jindřichuv Hradec, Czech Republic Talk: <i>Quantum Searches on Highly Symmetric Graphs</i>
June 2008	5th Central European Quantum Information Processing Workshop, Telč, Czech Republic Talk: <i>Quantum-Scattering Searches on Hihgly Symmetric Graphs</i>
May 2008	Quantum Prague: Workshop on modern trends in quantum optics and quantum information, Prague, Czech Republic Invited talk: <i>Quantum-scattering-walk Searches on Highly Symmetric Graph</i> <i>Structures</i>
June 2007	4th Central European Quantum Information Processing Workshop, Valtice, Czech Republic Talk: <i>Generalizing Deterministic Quantum Computation with One Qubit</i>

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Apr. 2007	Informal Quantum Information gathering 5, Innsbruck, Austria Talk: <i>Scattering Quantum Random Walk on a Hypercube</i>
Dec. 2006	CONQUEST Young European Physicists meeting 2006, Budmerice, Slovak Republic Talk: <i>Quantum walks based on an interferometric analogy</i> .
July 2004	12 th Czech and Slovak Conference on Magnetism CSMAG'04, Košice, Slovak Republic Poster: <i>The Partitioning of Magnetic Configurations Using the Self-organized</i> <i>Neural Network</i>

Other scientific contributions

Honors	Young Physicists Competition of Slovak Physical Society, 2nd place (2015)
	Marie Curie fellowship, COFUND scheme SASPRO (Apr. 2015– Mar. 2018)
	Fulbright stipend (Jan. 2014–May 2014)
	Štefan Schwarz's Supporting Fund for Forming Postdoctoral Positions in SAS (2011–2014)
	Finalist of Intenda Foundation scholarship <i>Supporting Individualities</i> (2009)
	Prize of the rector of University of Pavol Jozef Šafárik (2006)
	Numerous prizes of local mathematics and physics olympiad (1993–2001)
Membership	Fulbright alumni Club of Individualities, Intenda Foundation (Since 2009)
Referee for	Physical Review Letters (APS) Physical Review A (APS) The European Physical Journal D Foundations of Physics (Springer) Journal of Physics A (IOPscience) Physica A (Elsevier)
Popularization	General audience talk on <i>Where does the Quantum World Begin?</i> , Košice, Dec. 2016 General audience talk on <i>The Strange World of Quantum Mechanics</i> , New York, Apr. 2014; Bratislava, Nov. 2014 Young Physicists' Tournament, national round, referee (2010) Institute of Physics Open Day (Slovak Academy of Sciences)

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Scientometry	published papers: 21
	citations (w/o self-citations): 186
	h-index: 8

Present participation on projects

QWIN	SASPRO Marie Curie COFUND scheme, 0055/01/01 Quantum Walks and Incompatibility (Apr. 2015–Mar. 2018)
QWIN	VEGA 2/0151/15 Quantum Walks and Incompatibility (2015–2018)
ProQuNet	APVV SK-PT-2015-0029 Probing quantum networks with quantum walks (2016-2017)
QIMABOS	APVV-0808-12 <i>Quantum information of many-body systems</i> (Oct. 2013–Sept. 2017)
QETWORK	APVV-14-0878 <i>Quantum Theory on Graphs and Networks</i> (July 2015–June 2019)

Personal skills and competences

Mother Tongue	Slovak
Other Languages	English — advanced (C1) <i>General language state exam</i> — 17. May 2002, State Language School, L. Novomeského Sq. 4, Košice
	German — elementary (A2)
Organisational Skills	14th Central European Quantum Information Processing Workshop, Smolenice, Slovakia (2017)
	Focus Meeting — Mathematical foundations of quantum thermodynam- ics, Smolenice, Slovakia (2016)
	13th Central European Quantum Information Processing Workshop, Valtice, Czech Republic (2016)
	Workshop on Incompatible Measurements 2013, München, Germany
	COQUIT Workshop 2012, München, Germany
	8th Central European Quantum Information Processing Workshop, Zno- jmo, Czech Republic (2011)
	7th Central European Quantum Information Processing Workshop, Valtice, Czech Republic (2010)
	Participated in organisation of Soft-skills meeting in Piešťany, June 2007

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Prepared projects	QWIN VEGA 2/0151/15 (principal investigator) QWIN SASPRO 0055/01/01 (principal investigator) DFG International Scientific Events PQW APVV SK-PT-0008-10 (principal investigator) V4 QUTE IVF 20820121 QWOSSI APVV LPP-0264-07 CE QUTE APVV VVCE-0052-07
Principal investigator	ProQuNet APVV SK-PT-2015-0029 (2016-2017) QWIN VEGA 2/0151/15 (2015–2018) QWIN SASPRO 0055/01/01 (Apr. 2015–Mar. 2018) PQW APVV SK-PT-0008-10 (July 2011–Dec. 2012)
Computer Skills	Programming languages: C, Python, Mathematica, HTML and CSS (basics), SQL, C++ (basics)
	Other programs and applications: Mathematica, LATEX, GNUPlot
Teaching Experience	Mathematical structures of quantum theory, exercises (1 semester, FMFI) Seminar on Uncertainty relations (1 semester, TUM) Analysis II for Physicists, exercises (1 semester, TUM) Seminar on "Mathematics & Magic" (2 semesters, TUM) Analysis III for Physicists, exercises (1 semester, TUM)

Daniel Reitzner