

Personal Particulars			
Name	Tomasz Paterek		
Date of birth	17 th January 1978		
Birthplace	Hrubieszów, Poland (polish citizenship)		
Family status	Married		
Telephone	+65 9336 8464		
Email	tomasz.paterek@nus.edu.sg		
			
		Education & Work	
		Since 2008	Research Fellow at the CQT (National University of Singapore)
		2007-2008	Junior Scientist at the IQOQI Vienna (Austrian Academy of Sciences)
		2002-2007	Doctoral studies finished with honors at the University of Gdańsk, Poland Thesis: <i>Quantum communication</i> Supervisor: Prof. Marek Żukowski Doctoral degree received on 24 th May 2007
		1997-2002	Physics studies at the Marie Curie-Skłodowska University in Lublin, Poland Thesis: <i>Methods and role of projections in quantum mechanics</i> Supervisor: Prof. Andrzej Gózdź Master of Science degree received on 17 th September 2002
Fellowships			
2006-2007	Erwin Schrödinger Institute (Junior Research Fellowship) (twice)		
2004-2006	Foundation for Polish Science (Stipends under the subsidy of Prof. M. Żukowski)		
Teaching			
Programming	1 semester of tutorials at the University of Gdańsk		
Mathematical Analysis	2 semesters of tutorials at the University of Gdańsk This also involved preparation of tests for students.		
Professional Service			
Reviewer	For 21 international physics and mathematics journals.		
Organizer	Co-organizer of 2 workshops and 1 big conference (QIP 2011).		
Statement on publications list			
No. papers	28 (including 2 in Nature and 7 in Phys. Rev. Lett.)		
No. citations	380 (Web of Science)		
H-index	8 (8 of the papers were cited at least 8 times each)		

Publications	
[1]	W. Laskowski, M. Markiewicz, T. Paterek, M. Żukowski <i>Correlation tensor criteria for genuine multiqubit entanglement</i> Phys. Rev. A 84 , 062305 (2011)
[2]	S.-Y. Lee, T. Paterek, H. S. Park, H. Nha <i>Linear optical scheme for producing polarization-entangled NOON states</i> Opt. Comm. 285 , 307 (2011)
[3]	R. Ramanathan, T. Paterek, A. Kay, P. Kurzyński, D. Kaszlikowski <i>Local realism of macroscopic correlations</i> Phys. Rev. Lett. 107 , 060405 (2011)
[4]	M. Wieśniak, T. Paterek, A. Zeilinger <i>Entanglement in mutually unbiased bases</i> New J. Phys. 13 , 053047 (2011)
[5]	A. Fedrizzi, B. Škerlak, T. Paterek, M. P. de Almeida, A. G. White <i>Experimental information complementarity of two-qubit states</i> New J. Phys. 13 , 053038 (2011)
[6]	P. Kurzyński, T. Paterek, R. Ramanathan, W. Laskowski, D. Kaszlikowski <i>Correlation complementarity yields Bell monogamy relations</i> Phys. Rev. Lett. 106 , 180402 (2011)
[7]	T. Paterek, P. Kurzyński, D. K. L. Oi, D. Kaszlikowski <i>Reference frames for Bell inequality violation in the presence of...</i> New J. Phys. 13 , 043027 (2011)
[8]	T. Paterek, B. Dakić, Č. Brukner <i>Reply to comment on mutually unbiased bases, orthogonal Latin squares...</i> Phys. Rev. A 83 , 036102 (2011)
[9]	T. Paterek, B. Dakić, Č. Brukner <i>Theories of systems with limited information content</i> New J. Phys. 12 , 053037 (2010)
[10]	M. Pawłowski, J. Kofler, T. Paterek, M. Seevinck, Č. Brukner <i>Nonlocal setting and outcome information for violation of Bell's inequality</i> New J. Phys. 12 , 083051 (2010)
[11]	T. Paterek, M. Pawłowski, M. Grassl, Č. Brukner <i>On the connection between mutually unbiased bases and orthogonal Latin...</i> Phys. Src. T140 , 014031 (2010)
[12]	W. Laskowski, T. Paterek, Č. Brukner, M. Żukowski <i>Entanglement and communication-reducing properties of noisy N-qubit states</i> Phys. Rev. A 81 , 042101 (2010)
[13]	K. Modi, T. Paterek, W. Son, V. Vedral, M. Williamson <i>Unified view of quantum and classical correlations</i> Phys. Rev. Lett. 104 , 080501 (2010)
[14]	T. Paterek, J. Kofler, R. Prevedel, P. Klimek, M. Aspelmeyer, A. Zeilinger, ... <i>Logical independence and quantum randomness</i> New J. Phys. 12 , 013019 (2010) Chosen among New Journal of Physics Best of 2010 Highlighted in Euphysics News 41 , 10 (2010)

[15]	M. Pawłowski, T. Paterek, D. Kaszlikowski, V. Scarani, A. Winter, M. Żukowski <i>Information causality as a physical principle</i> Nature 461 , 1101 (2009)
[16]	P. Badziąg, Č. Brukner, W. Laskowski, T. Paterek, M. Żukowski <i>Experimentally accessible geometrical separability criteria</i> Phys. Scr. T 135 , 014002 (2009)
[17]	T. Paterek, B. Dakić, Č. Brukner <i>Mutually unbiased bases, orthogonal Latin squares, and hidden-variable models</i> Phys. Rev. A 79 , 012109 (2009)
[18]	B. Dakić, M. Šuvakov, T. Paterek, Č. Brukner <i>Efficient hidden-variable simulation of measurements in quantum experiments</i> Phys. Rev. Lett. 101 , 190402 (2008) Editors' suggestion
[19]	P. Badziąg, Č. Brukner, W. Laskowski, T. Paterek, M. Żukowski <i>Experimentally friendly geometrical criteria for entanglement</i> Phys. Rev. Lett. 100 , 140403 (2008)
[20]	T. Paterek, A. Fedrizzi, S. Gröblacher, T. Jennewein, M. Żukowski,... <i>Experimental test of non-local realistic theories without the rotational...</i> Phys. Rev. Lett. 99 , 210406 (2007)
[21]	T. Paterek <i>Measurements on composite qudits</i> Phys. Lett A 367 , 57 (2007)
[22]	S. Gröblacher, T. Paterek, R. Kaltenbaek, Č. Brukner, M. Żukowski,... <i>An experimental test of non-local realism</i> Nature 446 , 871 (2007); Corrigendum: Nature 449 , 252 (2007) Cover story of New Scientist (23 June 2007) On the cover of Seed Magazin (June 2008)
[23]	K. Nagata, W. Laskowski, T. Paterek <i>Bell inequality with an arbitrary number of settings and its applications</i> Phys. Rev. A 74 , 62109 (2006)
[24]	J. Kofler, T. Paterek, Č. Brukner <i>Experimenter's freedom in Bell's theorem and quantum cryptography</i> Phys. Rev. A 73 , 22104 (2006)
[25]	T. Paterek, W. Laskowski, M. Żukowski <i>On series of multiqubit Bell's inequalities</i> Mod. Phys. Lett. A 21 , 111 (2006)
[26]	W. Laskowski, T. Paterek, M. Żukowski, Č. Brukner <i>Tight multipartite Bell's inequalities involving many measurement settings</i> Phys. Rev. Lett. 93 , 200401 (2004)
[27]	T. Paterek <i>Comment on "On the Role of Locality Condition in Bell's Theorem"</i> Int. J. Quant. Inf. 2 , 419 (2004)
[28]	Č. Brukner, T. Paterek, M. Żukowski <i>Quantum communication complexity protocols based on higher-dimensional...</i> Int. J. Quant. Inf. 1 , 519 (2003)

Preprints	
[1]	K. Modi, A. Brodutch, H. Cable, T. Paterek, V. Vedral <i>Quantum discord and other measures of quantum correlations</i> arXiv:1112.6238
[2]	W. Laskowski, D. Richart, C. Schwemmer, T. Paterek, H. Weinfurter <i>Experimental Schmidt decomposition and entanglement detection</i> arXiv:1111.3521
[3]	T. K. Chuan, J. Maillard, K. Modi, T. Paterek, M. Paternostro, M. Piani <i>Role of quantumness of correlations in entanglement distribution</i> arXiv:1203.1268
[4]	B. Dakić, Y. O. Lipp, X. Ma, M. Ringbauer, S. Kropatschek, S. Barz, T. Paterek, ... <i>Quantum discord as optimal resource for quantum communication</i> arXiv:1203.1629
Visits	
2011	Pontificia Universidad Católica de Chile, Santiago, Chile (1 week) Korea Institute for Advanced Study, Seoul, South Korea (1 week) University of Gdańsk, Poland (10 days) University of Vienna, Austria (10 days)
2010	Texas A&M University at Qatar, Doha, Qatar (1 week) University of Gdańsk, Poland (1 week) IQOQI Vienna, Austria (1 week) Ludwig Maximilian University, Munich, Germany (1 week)
2009	Marie Curie-Skłodowska University, Lublin, Poland (1 week) University of Vienna, Austria (1 week) University of Gdańsk, Poland (10 days)
2008	University of Gdańsk, Poland (2 weeks) Queen's University of Belfast, UK (1 week) Centre for Quantum Technologies, Singapore (10 days)
2007	University of Gdańsk, Poland (1 week) IQOQI Vienna, Austria (as ESI fellow) (2 months)
2006	IQOQI Vienna, Austria (as ESI fellow) (6 months) Marie Curie-Skłodowska University, Lublin, Poland (1 day)
2005	University of Vienna, Austria (2 months)
2004	University of Vienna, Austria (1,5 month) Max Planck Institute, Garching, Germany (2 weeks)
2001	Heavy Ion Laboratory, Warsaw, Poland (1 month)
2000	Joint Institute for Nuclear Research, Dubna, Russia (1 week)