

MIŁOSZ PANFIL

theoretical physicist

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Institute of Theoretical Physics

University of Warsaw,

Pasteura 5, Warsaw,
Poland

CURRENT POSITION

2015--2018 POSTDOCTORAL FELLOW at the University of Warsaw,
Warsaw, Poland.

PAST POSITION

2013--2015 POSTDOCTORAL FELLOW at Scuola Internazionale Superiore di Studi
Avanzati (SISSA or International School for Advanced Studies),
Trieste, Italy.

EDUCATION

2009--2013 PHD DEGREE (Cum Laude), University of Amsterdam,
Amsterdam, the Netherlands,
supervisor J.-S. CAUX.

2007--2009 MSC DEGREE (Cum Laude), Free University,
Amsterdam, the Netherlands,
supervisor J.-S. CAUX.

2004--2008 Adam Mickiewicz University, Poznań, Poland.

HONORS

2015--2018 FUGA GRANT, National Science Centre, Poland.

2008--2010 HUYGENS SCHOLARSHIP, Ministry of Education, Culture and Science,
the Netherlands.

2007--2008 ERASMUS SCHOLARSHIP, Adam Mickiewicz University, Poland.

PUBLICATIONS

arXiv:1802.04573 *Donaldson-Thomas invariants, torus knots, and lattice paths,*
with M. STOŠIĆ and P. SUŁKOWSKI.

arXiv:1801.08079 *Edge singularities and quasi-long-range order in non-equilibrium steady*
states with J. DE NARDIS.

JSTAT 033102 (2018) *Particle-hole pairs and density-density correlations in the Lieb-Liniger*
model with J. DE NARDIS.

SciPost Phys. 3 (2017) *Probing non-thermal density fluctuations in the one-dimensional Bose*
gas with J. DE NARDIS, A. GAMBASSI, L. CUGLIANDOLO, R. KONIK
and L. FOINI.

JSTAT 013103 (2017) *On truncated generalized Gibbs ensembles in the Ising field theory,*
with F. ESSLER and G. MUSSARDO.

SciPost Phys. 1 (2016)	<i>Exact correlations in the Lieb-Liniger model and detailed balance out-of-equilibrium</i> with J. DE NARDIS.
JSTAT 03315 (2016)	<i>Quench dynamics in two-dimensional integrable SUSY models</i> with A.C. CUBERO and G. MUSSARDO.
PRL 115 (2015)	<i>Probing the excitations of a Lieb-Liniger gas from weak to strong coupling,</i> with F. MEINERT, M.J. MARK, K. LAUBER, J.-S. CAUX and H.-C. NÄGERL.
PRA 91 (2015)	<i>Generalized Gibbs Ensemble for Integrable Field Theories,</i> with F. ESSLER and G. MUSSARDO.
PRA 91 (2015)	<i>Revealing elementary excitations of one-dimensional Bose gases through their dynamical structure factor,</i> with N. FABBRI, D. CLÉMENT, L. FALLANI, M. INGUSCIO, C. FORT and J.-S. CAUX.
JSTAT P02019 (2015)	<i>Density form factor of the 1D Bose gas for finite entropy states,</i> with J. DE NARDIS.
PRA 89 (2014)	<i>Finite Temperature Correlations in the Lieb-Liniger 1D Bose Gas,</i> with J.-S. CAUX.
PRL 110 (2013)	<i>Metastable criticality and the super Tonks-Girardeau gas,</i> with J. DE NARDIS and J.-S. CAUX.
PRB 85 (2012)	<i>Exact prefactors in static and dynamic correlation functions of one-dimensional quantum integrable models,</i> with A. SHASHI, A. IMAMBEKOV and J.-S. CAUX.

MAJOR SCIENTIFIC ACTIVITIES

July 2016	<i>Symmetries and Integrabilities of Difference Equations</i> , Montreal, Canada, INVITED TALK on <i>New knots invariants and statistical physics</i> .
June 2016	<i>Integrable Systems and Quantum Symmetries</i> , Prague, Czech Republic, CONTRIBUTED TALK on <i>Out of equilibrium dynamics in the SUSY field theories</i> .
July 2015	<i>Beyond integrability</i> , Montreal, Canada, CONTRIBUTED TALK on <i>Constructing the generalized Gibbs ensembles for QFT's</i> .
September 2014	<i>9th Bologna Workshop on CFT and Integrable Models</i> , Bologna, Italy, CONTRIBUTED TALK on <i>Elementary Excitations in 1D Bose gas</i> .
March 2014	<i>Quantum Integrability, Conformal Field Theory and Topological Quantum Computation</i> , Natal, Brasil, INVITED TALK on <i>Elementary Excitations in 1D Bose Gas</i> .
September 2013	<i>Korrelationstage 2013</i> , Dresden, Germany, CONTRIBUTED TALK on <i>Finite Temperature Correlations in the 1D Bose Gas</i> .
September 2013	<i>Quantum Technologies IV</i> , Warsaw, Poland, CONTRIBUTED TALK on <i>Finite Temperature Correlations in the 1D Bose Gas</i> .
August 2013	<i>Quantum Many Body Systems out of Equilibrium</i> , Dresden, Germany, POSTER PRESENTATION.
February 2013	<i>Physics at the borderline between 1D and 2D</i> , Bad Honnef, Germany, POSTER PRESENTATION.
January 2013	<i>Physics @ FOM</i> , Veldhoven, the Netherlands, CONTRIBUTED TALK on <i>Metastable Criticality and the Super Tonks-Girardeau Gas</i> .
January 2013	<i>group of Hubert Saleur</i> , CEA, Saclay, France, VISTING SCIENTIST.

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| March 2012 | <i>Young Atom Opticians Conference 2012</i> , Kraków, Poland, CONTRIBUTED TALK on <i>Finite Temperature Correlations in the 1D Bose Gas</i> . |
| May 2011 | <i>Integrability and Its Breaking in Strongly Correlated and Disordered Systems</i> , Trieste, Italy, POSTER PRESENTATION. |

TEACHING EXPERIENCE

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| 2016 & 2017 | <i>Integrability in Quantum Theories</i> , LECTURER together with J. Pawełczyk. |
| 2016 | Series on lectures on <i>Symmetries, lattices and physics</i> during <i>Abecedarian School on Symmetries and Integrability of Difference Equations</i> , Montreal, Canada. |
| 2011 & 2012 | <i>Statistical Physics and Condensed Matter Theory</i> , 1st year master, TEACHING ASSISTANT. |
| 2010 & 2011 | <i>Classical Mechanics</i> , 2nd year bachelor, TEACHING ASSISTANT. |
| 2009 & 2010 | <i>Electrodynamics I</i> , 3rd year bachelor, TEACHING ASSISTANT. |

POPULARIZING SCIENCE

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| 2018 | Open University course <i>Magnetism of magnets</i> focused on modern theoretical physics as seen through the theory of magnetism. |
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Last updated: March 23, 2018