Lenart Zadnik

University of Ljubljana lenart.zadnik@fmf.uni-lj.si Faculty of mathematics and physics Phone: +386 31 709 229 Jadranska ulica 19 1000 Ljubljana Slovenia Personal Date and place of birth: 12th November 1991, Ljubljana, Slovenia INFORMATION Citizenship: Slovenian Home address: Trubarjeva cesta 3, 1290 Grosuplje, Slovenia Languages: Slovenian (native), English (fluent), French (basic), Russian (basic) PhD (2015 - 2019)EDUCATION Faculty of mathematics and physics, University of Ljubljana Thesis: Nonequilibrium integrable quantum dynamical systems Adviser: Tomaž Prosen MSc Phys (2013 - 2015) Faculty of mathematics and physics, University of Ljubljana Thesis: Semicyclic representations of quantum group and quasilocal conservation laws Adviser: Tomaž Prosen BSc Phys (2010 - 2013) Faculty of mathematics and physics, University of Ljubljana AWARDS 2015 University Prešeren Prize of the University of Ljubljana, for the master thesis 2016 Award for the best student achievements of the University of Ljubljana V. Popkov, T. Prosen, L. Zadnik, Inhomogeneous matrix product ansatz and exact PUBLICATIONS (September 2019) steady states of boundary driven spin chains at large dissipation, arXiv:1905.09273. M. Ljubotina, L. Zadnik, T. Prosen, Ballistic Spin Transport in a Periodically Driven Integrable Quantum System, Phys. Rev. Lett. 122, 150605 (2019). M. Vanicat, L. Zadnik, T. Prosen, Integrable Trotterization: Local Conservation Laws and Boundary Driving, Phys. Rev. Lett. 121, 030606 (2018). L. Zadnik, T. Prosen, Quasilocal conservation laws in the quantum Hirota model, J. Phys. A: Math. Theor., 50, 265203 (2017). E. Ilievski, M. Medenjak, T. Prosen, L. Zadnik, Quasilocal charges in integrable lattice systems, J. Stat. Mech. 064008 (2016). L. Zadnik, M. Medenjak, T. Prosen, Quasilocal conservation laws from semicyclic irreducible representations of $U_a(sl_2)$ in XXZ spin-1/2 chains, Nucl. Phys. B, **902**, 339 (2016). TEACHING Teaching assistant at the University of Ljubljana 2016–2019 Advanced Quantum Mechanics (Faculty of mathematics and physics) 2018/2019 Physics II (Faculty of natural sciences and technology) 2015/2016 Physics Laboratory I/II (Faculty of mathematics and physics)

Talks	Séminaire du LPTMS Orsay,11th June 2019 Inhomogeneous matrix product ansatz and exact solutions for strongly boundary driven spin chains
	Student workshop on integrability Louvain-la-Neuve, 9th April 2019 Inhomogeneous matrix product solutions of boundary driven spin chains
	Nonequilibrium Phenomena in Quantum Systems Krvavec, 16th December 2018 Spin transport and Drude weight bounds in the Trotterized XXZ model
	17th Christmas symposium of physicists of the University of Maribor Maribor, 15th December 2018 Spin transport and Drude weight bound in the Trotterized XXZ model
	Mini-workshop on Transport in one-dimension, University of Ljubljana Ljubljana, 16th November 2018 Spin transport and Drude weight bounds in Trotterized/driven XXZ model
	4th Trieste–Ljubljana meeting Ljubljana, 13th November 2018 Spin transport in the Trotterized XXZ model
	Seminar in mathematical physics, University of Ljubljana Ljubljana, 9th October 2018 Spin transport in the Trotterized XXZ model
	Nonequilibrium Phenomena in Quantum Systems Krvavec, 17th December 2017 Integrable Trotterization: Local Conservation Laws and Boundary Driving
	16th Christmas symposium of physicists of the University of Maribor Maribor, 14th December 2017 <i>Quantum Hirota model, local integrals of motion and boundary processes</i>
	Seminar in mathematical physics, University of Ljubljana Ljubljana, 12th December 2017 Integrable Trotterization
	Nonequilibrium Phenomena in Quantum Systems Krvavec, 18th December 2016 Quasilocal conservation laws in the Hirota model
	15th Christmas symposium of physicists of the University of Maribor Maribor, 15th December 2016 Quasilocality of conservation laws of the Hirota model
	14th Christmas symposium of physicists of the University of Maribor Maribor, 12th December 2015 Quasilocal conservation laws from semicyclic irreducible representations of Uq(sl2) in XXZ spin-1/2 chains

	Seminar in mathematical physics, University of Ljubljana Ljubljana, 22nd December 2015 Differential geometry and geometric phases: topology of density matrices and states
Schools	Integrability in atomic and condensed matter physics Les Houches Summer school, 30th July – 24th August 2018
	SFT 2017 - Lectures on statistical field theories Galileo Galilei institute for theoretical physics, 6th February – 17th February 2017
	2016 Arnold Sommerfeld School: Quantum Many-Body Physics far from
	Arnold Sommerfeld Center for Theoretical Physics, 12th September – 16th September 2016
PUBLIC OUTREACH	Frequenza della scienza Frequenza dell'elettrone 18th September 2019 Debate on quantum physics on Radio Študent