Curriculum Vitae

Personal Information

Name:	Levente Pristyák
Date and place of birth:	14 July 1995, Miskolc, Hungary
Nationality:	Hungarian
E-mail:	levente.pristyak@gmail.com

Work

2024-	Quantitative Researcher at MSCI

Education

2019-	PhD in Physics at Budapest University of Technology and Economics (Research topic: Dynamics of one-dimensional integrable systems)
2017-2019	MSc in Physics at Budapest University of Technology and Economics (Thesis title: Current operators in integrable spin chains)
2014-2017	BSc in Physics at Budapest University of Technology and Economics (Thesis title: Non-equilibrium time evolution in spin chains)
2010-2014	Földes Ferenc Gimnázium, Miskolc (Secondary Grammar School)

Teaching activity

- Introductory Physics (practice for electrical and computer engineers, BME)

- Physics 1 - Mechanics (practice for biochemical engineers, BME)

- Physics 2i (practice for computer engineers, BME)

- Modern Mathematical Methods in Physics (practice for physicists, BME)

- Mathematical Methods in Physics 2 (practice for physicists, BME)

Skills

Languages

Hungarian (mother tongue), English (C1), German (elementary)

Computer skills

Linux, C, C++, C#, Python, Matlab, Mathematica, LaTeX

Publications

[1] M. Borsi, B. Pozsgay, and L. Pristyák, "Current Operators in Bethe Ansatz and Generalized Hydrodynamics: An Exact Quantum-Classical Correspondence," *Phys. Rev. X* **10** (Mar, 2020) 011054. https://link.aps.org/doi/10.1103/PhysRevX.10.011054.

[2] B. Pozsgay, T. Gombor, A. Hutsalyuk, Y. Jiang, L. Pristyák, and E. Vernier, "Integrable spin chain with Hilbert space fragmentation and solvable real-time dynamics," *Phys. Rev. E* **104** (Oct, 2021) 044106. https://link.aps.org/doi/10.1103/PhysRevE.104.044106.

[3] B. Pozsgay, A. Hutsalyuk, L. Pristyák, and G. Takács, "Sublattice entanglement in an exactly solvable anyonlike spin ladder," *Phys. Rev. E* **106** (Oct, 2022) 044120. https://link.aps.org/doi/10.1103/PhysRevE.106.044120.

[4] L. Pristyák and B. Pozsgay, "Current mean values in the XYZ model," *SciPost Phys.* **14** (Jun, 2023) 158. https://scipost.org/10.21468/SciPostPhys.14.6.158.

[5] M. Borsi, L. Pristyák, and B. Pozsgay, "Matrix Product Symmetries and Breakdown of Thermalization from Hard Rod Deformations," *Phys. Rev. Lett.* **131** (Jul, 2023) 037101. https://link.aps.org/doi/10.1103/PhysRevLett.131.037101.

[6] O. Pomponio, L. Pristyák, and G. Takács, "Quasi-particle spectrum and entanglement generation after a quench in the quantum Potts spin chain," *Journal of Statistical Mechanics: Theory and Experiment* **2019** no. 1, (Jan, 2019) 013104. https://dx.doi.org/10.1088/1742-5468/aafa80.

[7] A. Hutsalyuk, B. Pozsgay, and L. Pristyák, "The LeClair-Mussardo series and nested Bethe Ansatz," *Nuclear Physics B* **964** (Mar, 2021) 115306. https://www.sciencedirect.com/science/article/pii/S0550321321000031.

[8] M. Borsi, B. Pozsgay, and L. Pristyák, "Current operators in integrable models: a review," *Journal of Statistical Mechanics: Theory and Experiment* **2021** no. 9, (Sep, 2021) 094001. https://dx.doi.org/10.1088/1742-5468/ac0f6b.