

Maistrenko Oleksii

Contact details:

Education

Years of study	Degree	Institution
2017-Nowadays	Ph.D. Physics	Max-Planck Institute for Solid State Research, Stuttgart, Germany
Research topic: <i>Josephson effect and proximity phenomena with triplet superconductors</i>		
2015-2017	M.Sc. Physics	University of Stuttgart
Research topic: <i>Random-phase approximation for spin-orbit coupled correlated magnets</i>		
2010-2014	B.Sc. Physics	V.N.Karazin Kharkiv National University, Ukraine
Research topic: <i>Random correlated diffractions gratings and antennas with managed radiation pattern</i>		

Honors and Awards

Year	Award
2014	Diploma cum laude
2011-2013	Kharkiv Mayor's special recognition for talented students (annual)

Experience

Years	Place of work	Title and main responsibilities
2012-2015	Kharkiv, Ukraine	Self-employed software developer (Python) Design, creation and maintenance of Python applications for several clients.
2010-2015	Gymnasium No.45, Kharkiv, Ukraine	Tutor in physics (part-time) Teaching pupils of grades 8-11 in solving problems in physics, preparing them to city- and nation-level competition in physics, advising them in doing research activities in physics

Language skills

Ukrainian, Russian	Native
English	working proficiency
German	A2

Technical skills

Working experience in Python, C++, Wolfram Mathematica, LaTeX markup language, MS Office applications.

Publications

Bunches of random cross-correlated sequences (Maistrenko AA, Melnik SS, Pritula GM, Usatenko OV) *J. Phys. A: Math. Theor.* - 46 (2013) 395002 (18pp)

Analysis of long-range correlations in DNA molecules: A new approach to biological classification (Melnik SS, Denisov SV, Maistrenko AA, Butova E Yu, Usatenko JV) *Vistnyk of Kharkiv National University – Vol.1075, series «Physics», 18 (2013) 46-49*

Random linear antennas with managed radiation pattern (Rus) (Maistrenko AA, Melnik SS, Pritula GM, Usatenko OV) *Journal of Radiophysics and Electronics - Vol 4 (18) 2 (2013)*