



CURRICULUM VITAE Of Gaydamak Tatyana

I. PERSONAL DATA

Family Name: HAIDAMAK Family Name used in publications: GAYDAMAK
First Name: TETIANA
Born on 26 June 1986 in Kharkiv, Ukraine
Nationality: Ukraine
Status: single
Private address: 12 Valter street app. 25, 61108 Kharkiv, Ukraine.
Languages: Ukrainian, Russian, English, French.
Position: Junior Research Scientist
Home Institute: B.Verkin Institute for Low Temperature Physics and Engineering National Academy of Sciences of Ukraine, 47 Lenin ave., 61103, Kharkiv, Ukraine.
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II. ALL ACADEMIC DEGREES OBTAINED

year: 2019 – PhD - Elastic characteristics of FeSe , $\text{SmFe}_3(\text{BO}_3)_4$, $\text{NdFe}_3(\text{BO}_3)_4$ and acoustoelectric transformation in them (**PhD will be obtained in January 2019**)
name of university: - B.Verkin Institute for Low Temperature Physics and Engineering National Academy of Sciences of Ukraine
place, country: - Kharkiv, Ukraine
subject: - Solid State Physics

year: 2009 - Master of Science
name of university: - V. N. Karazin Kharkiv National University
place, country: - Kharkiv, Ukraine
subject: - Solid State Physics, Diploma with honour

III. ALL STAGES OF UNIVERSITY EDUCATION

year: 2008 - Bachelor of Science
name of university: - V. N. Karazin Kharkiv National University
place, country: - Kharkiv, Ukraine
subject: - Physics

year: 2009 - Master of Science
 name of university: - V. N. Karazin Kharkiv National University
 place, country: - Kharkiv, Ukraine
 subject: - Solid State Physics, Diploma with honour

 time: - Oct. 2011 – Sept. 2014 - Post-Graduate Student
 name of institute: - B.Verkin Institute for Low Temperature Physics and Engineering, National Academy of Sciences of Ukraine
 place, country: - Kharkiv, Ukraine
 main subjects: - Solid State Physics

IV. PROFESSIONAL BACKGROUND

Sept.2004 - June. 2009 - Student, V. N. Karazin Kharkiv National University, Ukraine.
 Oct. 2011 - Oct. 2014- PhD student at B.Verkin Institute for Low Temperature Physics and Engineering National Academy of Sciences of Ukraine, Kharkiv, Ukraine
 Nov. 2014- up to now - Junior Researcher at B.Verkin Institute for Low Temperature Physics and Engineering National Academy of Sciences of Ukraine, Kharkiv, Ukraine

V. MEMBERSHIP IN SCIENTIFIC ASSOCIATIONS

Member of The European Physical Society (EPS), (from 2011).
 Member of The Optical Society (OSA), (from 2011).
 Member of The International Society for Optics and Photonics (SPIE), (from 2011).

VI. SCIENTIFIC CONFERENCE

- International Conference for Young Scientists «Low Temperature Physics» (ICYS-LTP) (Kharkiv, Ukraine, 2012-2017);
- International Conference of Student and Young Scientists in Theoretical and Experimental Physics HEUREKA(Lviv, Ukraine 19-22 April 2012);
- IV International Conference for Young Scientists «Low Temperature Physics- 2013» (ICYS-LTP-2013) (Kharkiv, Ukraine, June 3-7, 2013);
- International Conference of Student and Young Scientists in Theoretical and Experimental Physics HEUREKA (Lviv, Ukraine, 15-17 May 2013);
- International School s Conference on Nanoscience and Quantum Transport (nanoQT-2016) (Kyiv, Ukraine, October 8-14, 2016);
- International conference on strongly correlated electron systems (SCES – 2017) (Prague, Czech Republic, 17-21 July, 2017);
- V International research and practice conference «Nanotechnology and nanomaterials» (NANO – 2017) (Chernivtsi, Ukraine, August 23 – 26, 2017).
- 60th International Conference for Students of Physics and Natural Sciences (Open Readings Vilnius, Lithuania 14-17 March, 2017).
- 6th International Symposium in Optics and its Applications, «OPTICS-2018», (Trento, Italy, 17-20 February, 2018);
- The 21st International Conference on Solid Compounds of Transition Elements”, SCTE 2018 (Vienna, Austria, 25-29 March 2018);
- 12th Prague colloquium on f-electron systems (Prague, Czech Republic, 4 – 7 July 2018);

VII. EXPERIENCE AND RESEARCH INTERESTS

- Acoustic properties of solids
- Low temperature physics
- Superconductivity
- Piezomagnetism

VIII. LIST of PUBLICATIONS

Papers:

- **Acoustic characteristics of FeSe single crystals**, "Europhysics Letters", 2013, v. **101**, p. 56005-p1-56005-p5, **T.N Gaydamak.**, G. A. Zvyagina, K.R. Zhekov, I.V. Bilich, V.D. Fil, D.A. Chareev, A.N. Vasiliev
- **Piezomagnetism of FeSe single crystals**, "Europhysics Letters", 2013, v. **103**, p. 47009-p1-47009-p6, V. D. Fil, D. V. Fil, **T.N. Gaydamak**, K.R. Zhekov, G.A. Zvyagina, I. V. Bilich., D.A. Chareev, A.N. Vasiliev
- **Acoustopiezomagnetism and the elastic moduli of CoF₂**, "Low Temp. Phys." **40**, 524 (2014); **T. N. Gaydamak**, G. A. Zvyagina, K. R. Zhekov, I. V. Bilich, V. A. Desnenko, N. F. Kharchenko, V. D. Fil
- **Elastic and piezoelectric moduli of Nd and Sm ferroborates**, "Low Temp. Phys." **41**, 614 (2015) **T.N. Gaydamak**, I.A. Gudim, G.A. Zvyagina, I.V. Bilych, N.G. Burma, K.R. Zhekov, V.D. Fil
- **Magnetopiezoelectric effect and magnetocapacitance in SmFe₃(BO₃)₄**, Physical Review B **92**, 214428 (2015), **T. N. Gaydamak**, I. A. Gudim, G. A. Zvyagina, I. V. Bilych, N. G. Burma, K. R. Zhekov, V. D. Fil
- **Magnetodielectrical and magnetopiezoelectrical effects in NdFe₃(BO₃)₄**, "Low Temp. Phys." **42**, 1112(2016), I. V. Bilych, K. R. Zhekov, **T. N. Gaydamak**, I. A. Gudim, G. A. Zvyagina, V. D. Fil

Conference reports:

- **Elastic properties of FeSe**, "International Conference for Young Scientists LOW TEMPERATURE PHYSICS (ICYS–LTP–2012) ", Ukraine, Kharkov, p.66
- International conference of students and young researchers in theoretical and experimental physics HEUREKA-2012, D50
- International conference of students and young researchers in theoretical and experimental physics HEUREKA-2013, A6
- **FeSe – piezomagnetic**, IV International Conference for Young Scientists LOW TEMPERATURE PHYSICS (ICYS–LTP–2013), p.29
- **Acoustopiezomagnetic effect in CoF₂**, V International Conference for Young Scientists LOW TEMPERATURE PHYSICS (ICYS–LTP–2014) p.78
- **Ultrasonic in Nd and Sm ferroborates. Magnetopiezoelectric effect**, VI International Conference for Young Scientists LOW TEMPERATURE PHYSICS (ICYS–LTP–2015), p.47
- **Magnetopiezoelectric and magnetodielectric effects in NdFe₃(BO₃)₄**, International School s Conference on Nanoscience and Quantum Transport (nanoQT-2016) (Kyiv, Ukraine, October 8-14, 2016);
- **Piezomagnetism in FeSe**, 60th International Conference for Students of Physics and Natural Sciences (Open Readings Vilnius, Lithuania 14-17 March, 2017) p.308.
- **Magnetopiezoelectric effect in Sm and Nd ferroborates**, VIII International Conference for Professionals and Young Scientists "Low Temperature Physics" - ICPYS LTP 2017, p 84.

- **Piezomagnetism in FeSe**, International conference on strongly correlated electron systems (SCES – 2017) (Prague, Czech Republic, 17-21 July, 2017), We-2-36.
- **Magnetopiezoelectric effect in Sm and Nd ferroborates**, V International research and practice conference «Nanotechnology and nanomaterials» (NANO – 2017) (Chernivtsi, Ukraine, August 23 – 26, 2017), p.32.
- **Easy-plane ferroborates. Magnetopiezoelectric effects**, 6th International Symposium in Optics and its Applications, «OPTICS-2018», (Trento, Italy, 17-20 February, 2018), p.47.
- **Easy-plane ferroborates. Magnetopiezoelectric effects**, The 21st International Conference on Solid Compounds of Transition Elements”, SCTE 2018 (Vienna, Austria, 25-29 March 2018), Tu-PO14.
- **Samarium and neodymium ferroborates. Magnetopiezoelectric effects**, 12th Prague colloquium on f-electron systems (Prague, Czech Republic, 4 – 7 July 2018), P-3.