


PERSONAL INFORMATION

Levente Máthé



 National Institute for Research and Development of Isotopic and Molecular Technologies (NIRDIMT), Cluj-Napoca, Romania (Romania)

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 levente.mathe@itim-cj.ro

Sex Male | Date of birth 03/05/1991 | Citizenship Romanian, Hungarian

WORK EXPERIENCE

19/06/2018–Present

Research Assistant

National Institute for Research and Development of Isotopic and Molecular Technologies (NIRDIMT)

67-103 Donath, 400293 Cluj-Napoca (Romania)

<https://www.itim-cj.ro/>

Research Area: Transport phenomena in graphene-based quantum dots; Charge transport in quantum dots connected to Majorana zero modes

Business or sector Governmental (research)

01/10/2016–30/06/2018

Teaching Activities

Babeş-Bolyai University - Faculty of Physics

01 Kogălniceanu, 400027 Cluj-Napoca (Romania)

<http://phys.ubbcluj.ro/>

Coordinating seminary activities: Solid State Physics (3rd year, 1st Semester: 2016/2017; 2017/2018), Electricity and Magnetism (1st year, 2nd Semester: 2016/2017), Electricity and Magnetism 1 (1st year, 2nd Semester: 2017/2018)

EDUCATION AND TRAINING

01/10/2016–Present

PhD Student

Babeş-Bolyai University - Faculty of Physics

01 Kogălniceanu, 400027 Cluj-Napoca (Romania)

<http://phys.ubbcluj.ro>

Research Area: Physical properties of low-dimensional systems

Scientific supervisor: Prof. dr. Ioan Grosu

2014–2016

MSc: Solid State Physics

Babeş-Bolyai University - Faculty of Physics

01 Kogălniceanu, 400027 Cluj-Napoca (Romania)

<http://phys.ubbcluj.ro>

Thesis Title: Transport through a quantum dot with electron-phonon interaction

Scientific supervisor: Prof. dr. Ioan Grosu

2014–2016

Pedagogical Module Level 2

Babeş-Bolyai University, Cluj-Napoca (Romania)

2010–2014

BSc: Engineering Physics

Babeş-Bolyai University - Faculty of Physics

01 Kogălniceanu, 400027 Cluj-Napoca (Romania)
<http://phys.ubbcluj.ro>

Thesis Title: Fénysebességmérés szaggatott lézersugárral (Measuring the Speed of Light with Laser Pulses)

Scientific supervisors: Prof. dr. Zoltán Néda, dr. ing. Arthur Tunyagi

2010–2013 **Pedagogical Module Level 1**
Babeş-Bolyai University, Cluj-Napoca (Romania)

2006–2010 **Automation Technician**
Technological High School - Grup Școlar Electromureș
5 Livezeni, 540485 Târgu Mureș (Romania)
<http://www.electromures.net>
Thesis Title: Temporizator digital (Digital Timer)
Scientific supervisor: Prof. Ladislau Pethő

PERSONAL SKILLS

Mother tongue(s) Hungarian

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B1	B1	B2
Romanian	C1	C1	B2	B1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills - Excellent contact skills with students

Job-related skills - Teaching experience

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Independent user	Independent user	Proficient user	Proficient user	Independent user

Digital skills - Self-assessment grid

- Advanced knowledge of programs: Wolfram Mathematica, LaTeX, Autodesk Inventor, Origin and Microsoft Office;

- Basic knowledge of programs: Avogadro, Gauss View;

- Advanced knowledge of graphical applications: Corel Draw;

- Basic knowledge of programming languages: Python, C;

Other skills - I am passionate about graphic design and wood carving.

ADDITIONAL INFORMATION

- Conferences**
1. **Levente Máthé**, Ioan Grosu, *Transport through a quantum dot with electron-phonon interaction*, 2nd Autumn School on Physics of Advanced Materials (PAMS-2), 8-14. 09. 2016, Cluj-Napoca, Romania - Poster Presentation
 2. **Levente Máthé**, Ioan Grosu, *Transport Through a Strongly Interacting Quantum Dot Coupled to Graphene Electrodes*, The 3rd International Conference on Nanomaterials: Fundamentals and Applications (NFA 2017), 9-11. 10. 2017, Štrbské Pleso, Slovakia - Poster Presentation
 3. **Levente Máthé**, Ioan Grosu, *Nonequilibrium Kondo effect in a quantum dot coupled to graphene electrodes in presence of a magnetic field*, 12th International Conference on Physics of Advanced Materials (ICPAM-12), 22-28. 09. 2018, Heraklion, Grecia - Poster Presentation
 4. **Levente Máthé**, Ioan Grosu, *Kondo Resonance Splitting in a Graphene-based Quantum Dot*, 10th International Conference on Nanomaterials – R&A (NANOCON 2018), 17-19. 10. 2018, Brno, Republica Cehă - Poster Presentation
 5. **Levente Máthé**, Ioan Grosu, *Splitting of the Kondo Peak in a Quantum Dot Attached to Graphene Contacts*, 24th International Conference on Chemistry, 24-27. 10. 2018, Sovata, Romania - Oral Presentation
 6. **Levente Máthé**, Ioan Grosu, *Graphene-based Single Electron Transistor: Transition from the Coulomb Blockade to Kondo Effect*, Interfaces in Organic and Hybrid Thin-Film Optoelectronics (INFORM-19), 4-8. 03. 2019, Valencia, Spania - Poster Presentation
- Prizes**
- 12th International Conference on Physics of Advanced Materials (ICPAM-12), Heraklion, Grecia, 22-28. 09. 2018. - **Nicolae Sulțanu** Prize for poster presentation: *Nonequilibrium Kondo effect in a quantum dot coupled to graphene electrodes in presence of a magnetic field*.
- Publications**
- Levente Máthé**, Ioan Grosu, *Transport Through a Quantum Dot with Electron-Phonon Interaction*, Mater. Tod.: Proc. **5**, 15878-15887 (2018).