

Curriculum vitae



Personal data:

- Name: Bence Gábor
- Place and date of birth: Hungary, Szeged, 26. 10. 1995.
- Workplace: Wigner Research Centre for Physics
H-1121 Budapest, Konkoly-Thege Miklós út 29-33.
- Assignment: junior research fellow
- Phone: +36 1 392 2222 / 3839
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Education

September 2020 –

University of Szeged, Doctoral School of Physics

September 2016 – July 2018

University of Szeged, Physics MSc

September 2013 – June 2016

University of Szeged, Physics BSc

September 2007 – May 2013

András Dugonics Piarist High School, Szeged

Work experience

September 2021 –

*Wigner Research Centre for Physics, Institute for Solid State Physics and Optics,
Quantum Optics and Quantum Information Department, Quantum Optics research
group – junior research fellow*

Teaching experience

- 2022/2023. Semester I: Linear algebra for physicists – lecture, practice
- 2021/2022. Semester I: Theoretical mechanics – lecture, practice
Linear algebra for physicists – lecture, practice
- 2017/2018. Semester I: Theoretical mechanics – practice
- 2016/2017. Semester II: Mathematical methods in physics I. – practice
- 2016/2017. Semester I: Linear algebra for physicists – practice

Scientific interest

Cold atom physics, quantum optics, cavity quantum electrodynamics, dissipative quantum phase transitions

Scientific activity

Articles:

[3] B. Gábor, D. Nagy, A. Vukics, and P. Domokos, *Quantum bistability in the hyperfine ground state of atoms*, Phys. Rev. Research 5, L042038, Dec 2023

[2] B. Gábor, D. Nagy, A. Dombi, T. W. Clark, F. I. B. Williams, K. V. Adwaith, A. Vukics, P. Domokos, *Ground-state bistability of cold atoms in a cavity*, Phys. Rev. A. 107:023713, Feb 2023

[1] J. Csontos, Z. Tóth, Z. Pápa, B. Gábor, M. Füle, B. Gilicze, J. Budai, *Ultrafast in-situ null-ellipsometry for studying pulsed laser—Silicon surface interactions*, Applied Surface Science (2017)

MSc thesis:

Nuclear spin dynamics in the process of laser-induced particle acceleration (2018)
– supervisor: Péter Földi

BSc thesis:

Null-ellipsometric experiments using pump and probe setup (2016)
– supervisor: Judit Budai

Scholarships, grants, awards

- 2018, University of Szeged: Outstanding student of the Faculty of Science and Informatics
- 2013, András Dugonics Piarist High School: Dugonics Award

Skills

Language:

English – intermediate (B2) complex language exam (2013)

Computer skills:

Programming: Java, C, C++, Python

Driving skills

Driving license – category B (2017)

Other interest

Hiking, cycling, geocaching