

Željko Cimbalević

Phone number: 034 336 223 loc. 338 | Email: zeljko.cimbalevic@pmf.kg.ac.rs

Date of birth: 19.04.1996.

Place of birth: Smederevska Palanka, Republic of Serbia

Education

Elementary school

„Olga Milošević”, Smederevska Palanka
2003. – 2011.

High school

„Palanačka Gimnazija”, Smederevska Palanka
2011. – 2015.

Elementary music school

„Božidar Trudić”, Smederevska Palanka
2014. – 2016.

Undergraduate studies

Faculty of Science, Department of Physics, University of Kragujevac
2015. – 2019.

Graduate (Master's degree) studies

Faculty of Science, Department of Physics, University of Kragujevac
2019. – 2020.

PhD studies

Faculty of Science, Department of Physics, University of Kragujevac
2020. – *present*

Work Experience

Student demonstrator

Faculty of Science, Department of Physics, University of Kragujevac
October 2019. – March 2021.

Junior Researcher

Faculty of Science, Department of Physics, University of Kragujevac
March 2021. – January 2024.

Research Assistant

Faculty of Science, Department of Physics, University of Kragujevac
January 2024. – *present*

Skills

- **Research Techniques:** Numerical analysis, Solid-State Nuclear Track Detectors, Monte Carlo Method
- **Software/Tools:** MS Office (Word, Excel, PowerPoint), Fortran, C++, Wolfram Mathematica, Origin 8, CorelDraw, SigmaPlot, PHITS
- **Communication:** Strong scientific writing skills; experienced in presenting research goals and findings.

Certifications, Training, and Foreign languages

- Online beginners' course on the usage of PHITS programming package (19.-23. June 2023)
- High proficiency in speaking, writing and reading the English language
- Serbian Observer at International Physics Olympiad IPHO 2021.
- Serbian Observer at Junior Science Olympiad IJSO 2021.

Awards and Scholarships

- Winner of a scholarship for highly gifted students from the year 2017., up to 2021.

List of publications

1. **Cimbaljevic, Z.**, Dragnic, R., Radonjic, S., Markovic, V. M., Stevanovic, N., Krstic, D. Ruixue, H. (2024). Methodology of integrated measurements with radon diffusion chamber. Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment. <https://doi.org/10.1016/j.nima.2024.169741>
2. Milosevic, M., Stevanovic, N., Markovic, V. M., **Cimbaljevic, Z.** (2023). Finite difference time domain method of light propagation through inhomogeneous media. *Optica Applicata*, 53(4), 523–538. <https://doi.org/10.37190/oa230402>
3. Kovačević, M., Milosevic, M., **Cimbaljević, Ž.** (2021). A new liquid density measurement method based on elastic spring stretching. *Physics Education*, 56(3), 035026–035026. <https://doi.org/10.1088/1361-6552/abebb9>
4. **Željko Cimbaljević**, Milena Živković, Marko Milošević, Dragana Krstić, Tatjana Miladinović, Vladimir Marković, Nenad Stevanović, (2023). Gamma spectrometry analysis and health risk assessment of edible liquids, *Kragujevac Journal of Science*, 45. <https://doi.org/10.5937/kgjsci2345015c>
5. Marko Milošević, **Željko Cimbaljević**, Milena Živković, Nenad Stevanović, Vladimir Marković, Dragana Krstić, (2023). Analysis of Specific absorption rate in the human head model exposed to radiofrequency radiation, *Kragujevac Journal of Science*, 45. <https://doi.org/10.5937/kgjsci2345007m>

6. **Željko M. Cimbaljević**, Marko M. Milošević, Milan S. Kovačević, (2020).
Određivanje gustine tečnosti pomoću elastične opruge. 8. Međunarodna konferencija o nastavi fizike u srednjim školama.
7. Nenad Stevanović, Milan S. Kovačević, Vladimir M. Marković, Marko M. Milošević, **Željko M. Cimbaljević**, Aleksa Đurđević, (2020). Teslin transformator kao nastavno učilo. 8. Međunarodna konferencija o nastavi fizike u srednjoj školi.
8. **Željko M. Cimbaljević**, Vladimir M. Marković, Nenad Stevanović, Marko M. Milošević, (2021). Nastavno učilo sa Arduino karticom za analizu RC kola. 9. Međunarodna konferencija o nastavi fizike u srednjoj školi.
9. **Željko M. Cimbaljević**, Vladimir Marković, Marko Milošević, Ivana Vasiljević, . (2023). Физика плазме. XL Републички семинар о настави физике.
10. Ivana Vasiljević, , **Željko M. Cimbaljević**, , & Marko Milošević, (2023). Физика обновљивих извора енергије кроз огледе. XL Републички семинар о настави физике.
11. **Željko M. Cimbaljević**, Ivana Vasiljević, Marko Milošević, Vladimir Marković, . (2023). Примери електричног пражњења и плазме у атмосфери. XL Републички семинар о настави физике.
12. **Cimbaljević, Ž. M.**, Cimbaljević, D. M., Ajdačić, S., Milošević, M. M., Stevanović, N., Marković, V. (2024). Проблем три тела и стабилна решења. XLI Републички семинар о настави физике.
13. **Cimbaljević, Ž. M.**, Milošević, M. M., Vasiljević, I., Marković, V. (2024). Турбуленција у атмосфери. XLI Републички семинар о настави физике.