

Abdulah Jašarević

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EDUCATION

PhD in Theoretical Physics | *Atomic, molecular and optical physics* Faculty of Science, University of Sarajevo

Master of Science | *Theoretical Physics* Faculty of Science, University of Sarajevo

Bachelor of Science | *Theoretical Physics* Faculty of Science, University of Sarajevo

WORK EXPERIENCE

Senior Research and Teaching Assistant Faculty of Science, University of Sarajevo

Research and Teaching Assistant Faculty of Science, University of Sarajevo

OTHER EXPERIENCE

November 2021 – March 2025 Sarajevo, Bosnia and Herzegovina

October 2018 – September 2019 Sarajevo, Bosnia and Herzegovina

October 2014 – September 2018 Sarajevo, Bosnia and Herzegovina

November 2023 – Now Sarajevo, Bosnia and Herzegovina

January 2020 – October 2023 Sarajevo, Bosnia and Herzegovina

Academic Committee Member – Cantonal & Federal Mathematics C	ompetitions March 2015 – Now
Canton Sarajevo Mathematical Society	Bosnia and Herzegovina
Lecturer – Winter Schools in Physics	January 2022 – January 2023
Federation of Bosnia and Herzegovina Physical Society	Sarajevo, Bosnia and Herzegovina
Leader of the Bosnia and Herzegovina Team – 52nd International Ph	ysics Olympiad July 2022
Federation of Bosnia and Herzegovina Physical Society	Switzerland
Grading Coordinator – 26th Junior Balkan Mathematical Olympiad	June and July 2022
Canton Sarajevo Mathematical Society	Sarajevo, Bosnia and Herzegovina
Academic Committee Member – Federal & National Physics Compe	titions March 2015 – May 2022
Federation of Bosnia and Herzegovina Physical Society	Bosnia and Herzegovina
Lecturer – Math School for Gifted Students	September 2016 – August 2018
Canton Sarajevo Mathematical Society	Sarajevo, Bosnia and Herzegovina
ROJECTS AND RESEARCH	

PROJECTS AND RESEARCH	
Member of the Research Project "Development of a New Quantum	
Orbit Method and Its Application in Attosecond Science"	September 2024 – Now
Faculty of Science, University of Sarajevo	
Project approved and funded by the Ministry for Science, Higher Educati	on and Youth Canton Sarajevo
Member of the Research Project "New Methods for Generating	
Soft X-Rays and Scattered Electrons Using Complex Laser Fields"	September 2019 – March 2021
Faculty of Science, University of Sarajevo	
• Project approved and funded by the Ministry for Science, Higher Educati	on and Youth Canton Sarajevo

CONFERENCES AND WORKSHOPS

4th International Physics Conference in Bosnia and Herzegovina Poster presentation. Conference organized by the Physical Society in Federation of Bosnia and Herzegovina with the support of the University of Sarajevo - Faculty of Science.	September 2024
International Physics Conference in Bosnia and Herzegovina 2022 Poster presentation. Conference organized by the Physical Society in Federation of Bosnia and Herzegovina with the support of the University of Sarajevo - Faculty of Science.	June - July 2022
Physics Conference in Bosnia and Herzegovina 2018 Conference organized by the Physical Society in Federation of Bosnia and Herzegovina	October 2018
Training & Research for Academic Newcomers (TRAIN) program Academic training program (6 ECTS) in research and teaching skills organized by University of	May 2022 f Sarajevo
Effective Researcher and Pedagogic Stratification in Academics training Organized by the Faculty of Science – University of Sarajevo, Nottingham Trent University UK and the International Society of Engineering Science and Technology UK	December 2021
Sarajevo School of High Energy Physics 2018 Organized by the Faculty of Science – University of Sarajevo with the support of CERN	October 2018
Honors and Awards	
"Golden Badge" of the University of Sarajevo Best graduate student (Master's level) at the University of Sarajevo with a perfect GPA (10/10)	December 2019
"Golden Badge" of the University of Sarajevo Best undergraduate student at the University of Sarajevo with a perfect GPA (10/10)	December 2018
Special Recognition from the Ministry of Education of the Federation of Bosnia and Herzegovina Awarded annually to top-performing students in mathematics, physics, and informatics compe	2008 – 2014 etitions
Scholarship from the "Bošnjaci" Fund Merit-based scholarship awarded to top university students in Bosnia and Herzegovina	2015 - 2019
Skills	
Languages: Bosnian (Native), English (C1), Turkish (B1) Driver Licence: B category	

PUBLICATIONS

- [1] Dino Habibović, Abdulah S Jašarević, Mustafa Busuladžić, and Dejan B Milošević. "High-order above-threshold ionisation of diatomic molecules by few-cycle bicircular and orthogonally polarised two-colour pulses". In: *Physical Chemistry Chemical Physics* 26.27 (2024), pp. 19008–19020.
- [2] AS Jašarević, D Habibović, and DB Milošević. "Quantum orbits in atomic ionization beyond the dipole approximation". In: *Physical Review A* 110.2 (2024), p. 023111.
- [3] AS Jašarević, E Hasović, and DB Milošević. "Modified saddle-point method applied to high-order above-threshold ionization and high-order harmonic generation: Slater-type versus asymptotic ground-state wave function". In: *Physical Review A* 109.4 (2024), p. 043114.
- [4] DB Milošević, AS Jašarević, D Habibović, E Hasović, A Čerkić, and W Becker. "Asymptotic methods applied to integrals occurring in strong-laser-field processes". In: *Journal of Physics A: Mathematical and Theoretical* 57.39 (2024), p. 393001.
- [5] Abdulah S. Jašarević, Elvedin Hasović, and Dejan B. Milošević. "High-Order Above-Threshold Ionization Using a Bi-Elliptic Orthogonal Two-Color Laser Field with Optimal Field Parameters". In: *Atoms* 11.6 (2023), p. 91.

- [6] AS Jašarević, E Hasović, and DB Milošević. "Modified saddle-point method applied to direct ionization of noble gas atoms". In: *Journal of Physics A: Mathematical and Theoretical* 56.33 (2023), p. 335201.
- [7] AS Jašarević, E Hasović, and DB Milošević. "Ionization by a strong orthogonal two-color laser field: a quantum-orbit-theory approach". In: *The European Physical Journal D* 76.12 (2022), p. 240.
- [8] A Jašarević, E Hasović, R Kopold, W Becker, and DB Milošević. "Application of the saddle-point method to strong-laser-field ionization". In: *Journal of Physics A: Mathematical and Theoretical* 53.12 (2020), p. 125201.