

DEPARTMENT OF PHYSICAL ELECTRONICS

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PUBLICATIONS IN IMPACTED JOURNALS RELATED TO THE TOPIC OF THE DOCTORAL THESIS

- [1] O. Finke., J. Vábek, M. Nevrkla, N. Bobrova, O. Hort, M. Jurkovič, M. Albrecht, A. Jančárek, F. Catoire, S. Skupin, and J. Nejd, "Phase-matched high-order harmonic generation in pre-ionized noble gases," *Sci Rep* 12, 7715 (2022)
- [2] K. Veyrinas, J. Vábek, C. Valentin, D. Descamps, C. Péjot, F. Burgy, E. Constant, E. Mével, and F. Catoire, "Spectral filtering of high-order harmonics via optics-free focusing," *Opt. Express* 29, 29813-29827 (2021)
- [3] V. E. Nefedova, M. F. Ciappina, O. Finke, M. Albrecht, J. Vábek, M. Kozlová, N. Suárez, E. Pisanty, M. Lewenstein, and J. Nejd, "Determination of the spectral variation origin in high-order harmonic generation in noble gases" *Phys. Rev. A* 98, 03341 (2018)

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- [4] O. Finke, J. Vábek, M. Nevrkla, N. Bobrova, O. Hort, M. Jurkovič, M. Albrecht, A. Jančárek, F. Catoire, S. Skupin, and J. Nejd, "Phase-matched absorption-limited HHG using pre-ionization", *The International Conference on Ultrafast Phenomena (UP) 2022*
- [5] C. Valentin, J. Vábek, K. Veyrinas, S. Pawdziak, D. Descamps, C. Péjot, F. Burgy, E. Constant, E. Mével, and F. Catoire, "Spatiotemporal Control of Attosecond XUV Beams", *The International Conference on Ultrafast Phenomena (UP) 2022*
- [6] C. Valentin, K. Veyrinas, J. Vábek, D. Descamps, C. Péjot, F. Burgy, F. Catoire, E. Constant, and E. Mével, "Optics-Free Focusing and Application to Spectral Filtering of XUV Beam", *The 22nd International Conference on Ultrafast Phenomena 2020*
- [7] C. Valentin, L. Quintard, J. Vábek, F. Burgy, C. Péjot, F. Catoire, E. Constant, and E. Mével, "Spectral Selection of High Harmonics via Spatial Filtering", *High Intensity Lasers and High Field Phenomena 2018*

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- [8] J. Nejd, U. Chaulagain, O. Hort, D. Mai, R. Lera, S. Karatodorov, M. Albrecht, M. Jurkovič, O. Finke, M. Lamač, M. Raclavský, and J. Vábek, "New Generation of Laser-driven X-ray Sources at ELI Beamlines", OSA High-brightness Sources and Light-driven Interactions Congress 2020 (EUVXRAY, HILAS, MICS)
- [9] J. Nejd, U. Chaulagain, D. Mai, O. Hort, M. Lamač, M. Raclavský, M. Albrecht, M. Jurkovič, O. Finke, J. Vábek, Y. Pulnova, and S. V. Bulanov, Update on Laser-driven X-ray Sources at ELI Beamlines, Optica High-brightness Sources and Light-driven Interactions Congress 2022