Attosecond dynamics of multi-channel single photon ionization

SND-ID: 2022-130-1. **Version**: 1. **DOI**: https://doi.org/10.5878/h5yr-gb56

Download data

Source Data.xlsx *(10.54 KB)*

Associated documentation

Documentation.txt *(695 bytes)*

Download all files

2022-130-1-1.zip *(~11.22 KB)*

Citation

Eng-Johnsson, P., & Peschel, J. (2022) Attosecond dynamics of multi-channel single photon ionization (Version 1) [Data set]. Lund University. Available at: https://doi.org/10.5878/h5yr-gb56

Creator/Principal investigator(s)

Per Eng-Johnsson - Lund University, Department of Physics

Jasper Peschel - Lund University, Department of Physics

Research principal

Lund University - Department of Physics

Description

Data for the main findings of the following article: "Attosecond dynamics of multi-channel single photon ionization"
The data represents the experimentally measured one-photon photoionization phases from ionization of the Neon ground state. The data is formatted in an Excel-file.

Data contains personal data

No

Language

English

Data format / data structure

Numeric

Responsible department/unit

Department of Physics

Contributor(s)

Anne L'Huillier - Lund University, Department of Physics

Funding 1

- Funding agency: Swedish Research Council
- Funding agency's reference number: 2013-08185
- Project name on the application: Ansökan: Lunds attosekundvetenskapscentrum

Funding 2

- Funding agency: European Research Council
- Funding agency's reference number: 884900
- Project name on the application: Quantum Physics with Attosecond Pulses

Funding 3

- Funding agency: Swedish Foundation for Strategic Research

Funding 4

- Funding agency: Knut and Alice Wallenberg Foundation

Funding 5

- Funding agency: Crafoord Foundation

Research area

Natural sciences (Standard för svensk indelning av forskningsämnen 2011)

Physical sciences (Standard för svensk indelning av forskningsämnen 2011)

Atom and molecular physics and optics (Standard för svensk indelning av forskningsämnen 2011)

Keywords

Photoionization, Photoionization dynamics

Publications

Peschel, J., Busto, D., Plach, M., Bertolino, M., Hoflund, M., Maclot, S., Vinbladh, J., Wikmark, H., Zapata, F., Lindroth, E., Gisselbrecht, M., Dahlström, J. M., L'Huillier, A., & Eng-Johnsson, P. (2022). Attosecond dynamics of multi-channel single photon ionization. In Nature Communications (No. 5205; Vol. 13, Issue 1).
DOI: https://doi.org/10.1038/s41467-022-32780-5

Jasper Peschel, David Busto, Marius Plach, Mattias Bertolino, Maria Hoflund, Sylvain Maclot, Jimmy Vinbladh, Hampus Wikmark, Felipe Zapata, Eva Lindroth, Mathieu Gisselbrecht, Jan Marcus Dahlström, Anne L'Huillier, Per Eng-Johnsson. (2021). Complete characterization of multi-channel single photon ionization. arXiv:2109.01581
DOI: https://doi.org/10.48550/arXiv.2109.01581

If you have published anything based on these data, please notify us with a reference to your publication(s). If you are responsible for the catalogue entry, you can update the metadata/data description in DORIS.

Accessibility level

Access to data through SND
Data are freely accessible

Use of data

Things to consider when using data shared through SND

Versions

Version 1. 2022-08-12

Contacts for questions about the data

Jasper Peschel
jasper.peschel@gmail.com
Per Eng-Johnsson
per.eng-johnsson@fysik.lth.se

Download metadata

DataCite
DDI 2.5
DDI 3.3
DCAT-AP-SE 2.0
JSON-LD
PDF
Citation (CLS)
File overview (CSV)

Published: 2022-08-12
Last updated: 2023-10-04