

Documentation

Dataset for Manuscript "Cross-process interference in single-cycle electron emission from metal needle tips"

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1 General Information

Dataset title: Dataset for Manuscript "Cross-process interference in single-cycle electron emission from metal needle tips"

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Type: Simulation source codes, condensed data, scripts for data visualization

Language: English

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2 Description

This archive contains the source codes (c++ and Matlab) required to generate the data presented in Ref. [1]. Furthermore, we provide a condensed version of the generated data as well as respective Matlab scripts to generate the visualizations.

3 Data Format

The data is stored in *.mat files which can be opened with Matlab or using other programming languages (e.g. python or c/c++).

4 Archive Structure

The archive has the following structure:



References

[1] A. Herzig, P. Hommelhoff, E. Goulielmakis, T. Fennel and L. Seiffert, *Cross-process interference in single-cycle electron emission from metal needle tips*, Phys. Rev. Lett. (2025) (<https://doi.org/10.1103/n482-q85k>)