



# Publication notification

## including metadata

(please try to fill in as much as possible, even if not complete)

QUAST

### Publication:

Title:	Ultrafast Pseudomagnetic Fields from Electron-Nuclear Quantum Geometry
Journal Reference (URL or DOI):	<a href="https://doi.org/10.1103/PhysRevLett.134.016705">https://doi.org/10.1103/PhysRevLett.134.016705</a>
arXiv Reference:	<a href="https://doi.org/10.48550/arXiv.2403.13070">https://doi.org/10.48550/arXiv.2403.13070</a>

### Contact for data requests:

Name:	Lennart Klebl
Institution:	Institute for Theoretical Physics, Universität Hamburg
E-Mail:	<a href="mailto:lennart.klebl@uni-wuerzburg.de">lennart.klebl@uni-wuerzburg.de</a>
Academic position / Role in data storage:	PostDoc

### Contact for data requests:

Name:	Tim Wehling
Institution:	Institute for Theoretical Physics, Universität Hamburg
E-Mail:	<a href="mailto:tim.wehling@physik.uni-hamburg.de">tim.wehling@physik.uni-hamburg.de</a>
Academic position / Role in data storage:	Prof

### Type of data produced: (Please check the corresponding box)

☐ QUAST-funded authors were not directly involved in creating or storing data.

☐ Work is purely analytic. Figures are visualizations of analytic expressions given in the paper.

☐ For original data, please refer to the cited publications.

☒ All data and code shown in the paper are available in [provide link]

<https://zenodo.org/records/14536597>

☐ Data is available on reasonable request [fill out the missing information below]

☐ Other [please provide an alternative description below]

--

## Dataset 1: (Collection of data published/archived together)

Short description of data:

Floquet simulations/DFT data

Origin of data (institution):

Institute for Theoretical Physics, Universität Hamburg

(3rd party) Software used:

Quantum Espresso, Wannier90, EPW

☐ additional information included as README with data

## Data availability:

☒ published at (DOI)

<https://zenodo.org/records/14536597>

☐ on reasonable request, to corresponding author. Data is archived:

☐ according to local policy at institution (as provided).

☐ other (Please provide details: location, accessible by, ...)

☐ data included in publication or as supplemental online material at the publishers website

## Source availability: (own software or scripts, used to generate/process data)

☒ published at (link)

<https://zenodo.org/records/14536597>

☐ archived/published with data

☐ archived according to local policy at institution (as provided)

☐ other (Please provide details: location, accessible by, ...)

## Dataset 2: (Collection of data published/archived together)

Short description of data:

Origin of data (institution):

(3rd party) Software used:

☐ additional information included as README with data

## Data availability:

☐ published at (DOI)

☐ on reasonable request, to corresponding author. Data is archived:

☐ according to local policy at institution (as provided).

☐ other (Please provide details: location, accessible by, ...)

☐ data included in publication or as supplemental online material at the publishers website

## Source availability: (own software or scripts, used to generate/process data)

☐ published at (link)

☐ archived/published with data

☐ archived according to local policy at institution (as provided)

☐ other (Please provide details: location, accessible by, ...)