



Publication notification

including metadata

QUAST

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

Publication:

Title:	Phonon fluctuation diagnostics: Origin of charge order in AV3Sb5 kagome metals
Journal Reference (URL or DOI):	
arXiv Reference:	https://doi.org/10.48550/arXiv.2504.07883

Contact for data requests:

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Academic position / Role in data storage:	Prof

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Academic position / Role in data storage:	PhD Student

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]
- 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:

DFT, DFPT, Fluctuation calculations and ARPES for AV3Sb5

Origin of data (institution):

University of Würzburg

(3rd party) Software used:

VASP, QE, elphmod

additional information included as README with data

Data availability:

published at (DOI) <https://doi.org/10.17172/NOMAD/2025.04.09-1>

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

according to local policy at institution (as provided).

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

<https://doi.org/10.5281/zenodo.15188195>

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://github.com/janberges/elphmod>

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, ...)