

Publication notification

QUAST

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

Publicat	ion:			
Title:	Disentangling real space fluctuations: the diagnostics of metal-insulator transitions beyond single-particle spectral functions			
Journal Ref	erence (URL or DOI):			
arXiv Reference:		2501.18325		
Contact	for data req	uests:		
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Academic p	oosition / Role in dat	a storage:	Research Group Leader	
·		-		
Contact	for data req	uests:		
Name:				
Institution				
E-Mail:				
Academic position / Role in data storage:				
Type of	data produc	ed: (Please check	the corresponding box)	
QUAST-funded	authors were not directly invo	lved in creating or stori	ng data.	
Work is purely	analytic. Figures are visualizat	ions of analytic expressi	ions given in the paper.	
For original dat	a, please refer to the cited pub	lications.		
All data and code shown in the paper are available in [provide link]				
☐ Data is availabl	e on reasonable request [fill ou	it the missing informati	on below]	
Other [please p	rovide an alternative description	on below]		
All data	available in the paper are av	ailable under https://c	loi.org/10.17617/3.BKGXQO	

Dataset 1: (Collection of data published/archived together) With this data set we provide all relevant raw data for the analyses provided in arXiv:2501.18325 via HDF5 files. The file names contain first the method (either CDMFT or the ISOLATED cluster), then the interaction value, the temperature, the doping or the chemical potential, the second next neighbor hopping and, finally, the size of the (impurity) cluster, either 1x1 or 2x2 follows. 1x1 indicates a Short description of data: single-site DMFT calculation. Max Planck Institute for Solid State Research, Stuttgart 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, ...)

Dataset 2: (Colle	ction of data published/archived together)
Short description of data:	
Origin of data (institution):	
(3rd party) Software used:	
additional information in	cluded as README with data
D	10.
Data availabi	lity:
published at (DOI)	
on reasonable request	, to corresponding author. Data is archived:
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