

This read me file describes the research data for

Microwatt volatile optical bistability via nanomechanical nonlinearity

Dimitrios Papas¹, Jun-Yu Ou¹, Eric Plum¹ and Nikolay I. Zheludev^{1,2}

¹ *Optoelectronics Research Centre and Centre for Photonic Metamaterials,
University of Southampton, Southampton, SO17 1BJ, United Kingdom*

² *Centre for Disruptive Photonic Technologies, SPMS, TPI,
Nanyang Technological University, Singapore 637371, Singapore*

This research dataset should be interpreted and understood in the context of the corresponding manuscript, which has been published in *Advanced Science* with DOI: 10.1002/advs.202300042. All relevant information regarding the dataset, how it was obtained and its context is contained in the manuscript. The data correspond to the data shown in the figures of the manuscript.

This dataset supports the publication:

Publication DOI: 10.1002/advs.202300042
Title and authors: as above
Journal: *Advanced Science*
Volume (number): 10 (18)
Article number: 2300042
Year: 2023

Dataset DOI: 10.5258/SOTON/D2077
Location of data collection: University of Southampton
Time of data collection: 2021
Licence: CC-BY
Research funded by: UK Engineering and Physical Sciences Research Council
(grant EP/M009122/1),
Singapore Ministry of Education (grant MOE2016-T3-1-006 (S))

File creation: Data file created by Dimitrios Papas in December 2021.
Read me file created by Eric Plum in December 2021 and updated in Sept 2023.