# Description of Dataset

READ ME File for Dataset for "Unsteady forcing of turbulence by a randomly actuated impeller array"

Dataset DOI: 10.5258/SOTON/D2056

This dataset supports the publication: Lawson, J.M. & Ganapathisubramani, B. (2022). Unsteady forcing of turbulence by a randomly actuated impeller array. Experiments in Fluids

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The accompanying MATLAB code, .mat files and .xlsx files contain all data necessary to reproduce figures 2-13 from the manuscript.

MATLAB code to reproduce each figure is provided in the folder “code”. This also contains the excel file “reference.xlsx”, which summarises the main statistical properties from each experimental run. Experimental runs 1-7 form Series φ, 7,11-18 form series Ω, and 18-21 form series T.

The underlying statistical properties derived from each experimental run (run01 – run21) are provided in the folders labelled in .mat file format. Field names and descriptions of these data can be found within comments of associated MATLAB code.