



JOURNAL OF
APPLIED
CRYSTALLOGRAPHY

Volume 54 (2021)

Supporting information for article:

The *ISOTILT* software for discovering cooperative rigid-unit rotations in networks of interconnected rigid units

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Due to the structural complexity of the HTB, TTB, and CAZO examples, the parent-structure files and ISOTILT output files (singular-value scans and RUM-detection results) from each of these examples are listed below and included as Supporting Information.

SI_HTB-sg191_parent.cif (HTB parent-structure file, space group *P6/mmm*)

SI_HTB-results-svals.txt (HTB singular-value output)

SI_HTB-results-rums.txt (HTB RUM-detection output)

SI_TTB-sg127_parent.cif (TTB parent-structure file, space group *P4/mbm*)

SI_TTB-results-svals.txt (TTB singular-value scan output)

SI_TTB-results-rums.txt (TTB RUM-detection output)

SI_CAZO-sg57_parent.cif (CAZO parent-structure file, space group *Pbcm*)

SI_CAZO-results-svals.txt (CAZO singular-value scan output)

SI_CAZO-results-rums.txt (CAZO RUM-detection output)

SI_TTB-sg87-R1(a,a,-a,a).cif (TTB child symmetry-mode CIF for specific irrep/OPD)

SI_TTB-sg87-R1(a,a,-a,a)-RA.cif (TTB RUM-active symmetry-mode CIF for specific irrep/OPD)

SI_TTB-sg87-R1(a,a,-a,a).isoviz (TTB interactive distortion for specific irrep/OPD)