



# Changing gears to neutral in a polymorph of one-dimensional arrays of cogwheel-like pairs of molecular rotors

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Titre	Changing gears to neutral in a polymorph of one-dimensional arrays of cogwheel-like pairs of molecular rotors
Type de publication	Article de revue
Auteur	Bastien, Guillaume [1], Lemouchi, Cyprien [2], Allain, Magali [3], Wzietek, Pawel [4], Rodríguez-Forteza, Antonio [5], Canadell, Enric [6], Iliopoulos, Konstantinos [7], Gindre, Denis [8], Chrysos, Michel [9], Batail, Patrick [10]
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Résumé en anglais	We report on a polymorph (2) of an amphidynamic crystal of molecular rods with two helical 1,4-bis(ethynyl)bicyclo[2.2.2]octane rotators where half of the rod-like molecules appear to be shifted with respect to their closest neighbours. This translation takes cogwheel-like pairs of rotators apart in the lattice in such a way that their motion becomes uncorrelated. This property is to be contrasted with the highly correlated motion found to govern the rotators in a recently-published polymorph 1 of the same material. As with polymorph 1, this motion is shown to take place independently of mutations in the handedness of the rotators and of the 'mutamer'-induced second harmonic generation.
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Titre abrégé	CrystEngComm

## Liens

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- [4] [http://okina.univ-angers.fr/publications?f\[author\]=10284](http://okina.univ-angers.fr/publications?f[author]=10284)

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