

# The regularity of elastic energy minimisers with positive twist

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According to a well-known model due to J.M. Ball, the behaviour of nonlinearly elastic solids can be understood via properties of their energy minimisers. We show that if the condition of ‘positive twist’ holds then, in the two-dimensional setting, energy minimisers are Hölder continuous. We also give a characterisation of positive twist in terms of star-shapedness, demonstrating that, in principle, it is straightforward to check whether a mapping has positive twist or not.