



Shape memory alloys – energy free deformations and length scale

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Modern shape memory materials create in their martensite phase microstructures whose huge complexity reflects the nonconvexity of the underlying bulk energy. The derivation of proper length scale due to higher order energy terms is still very difficult.

We report on recent progress in the existence of many almost energy free loads (liquid-like behaviour) and of energy free deformations with a positive length scale. Results were obtained jointly with Georg Dolzmann.



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