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Bursty deformation of crystalline materials: some experimental, empirical, and modelling results

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We report on recent experimental and empirical studies regarding the bursty strain behavior of memory alloys undergoing reversible martensitic transformations, highlighting the role of kinematic compatibility also on these avalanching phenomena. We present some related crystallographically-informed Ericksen-Landau type modeling, and associated results on strain intermittency.

