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Prof. John M. Ball
Oxford University

Interfaces, surface energy and solid phase transformations

ABSTRACT

Phase transformations in solids lead to interfaces between different variants of the product phase. In some materials these are atomistically sharp, while in others the interface thickness extends over a number of atomic spacings. The talk will discuss different variational models for describing such interfaces and their analysis. This is joint work with Elaine Crooks (Swansea) and with Carlos Mora-Corral (Bilbao).