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## 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).