

# PRISMS PhaseField

## Coupled Cahn-Hilliard and Mechanics example

Domain: 100x100

Mesh: 128x128

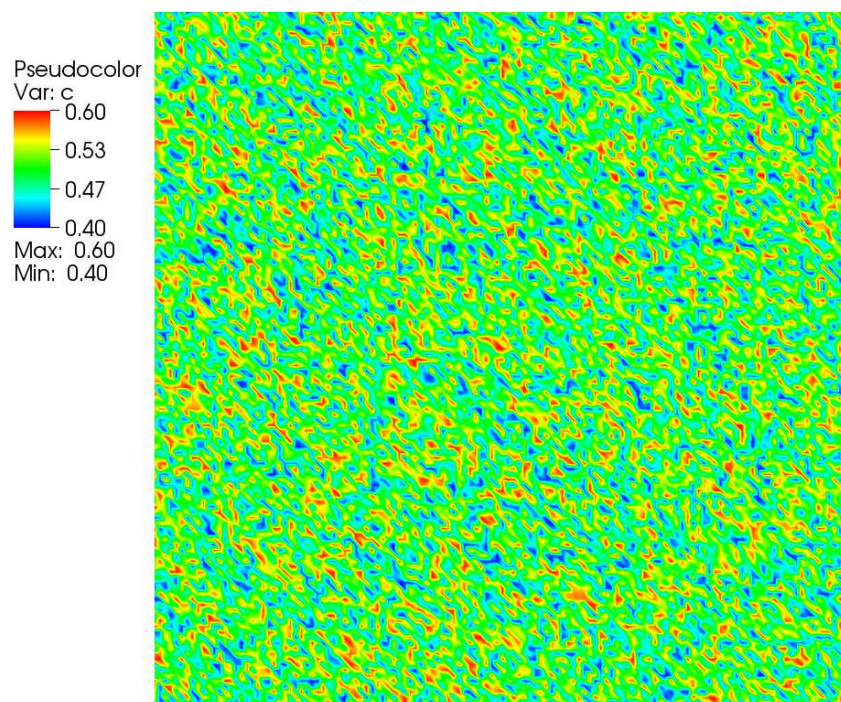


Figure 1: Composition field at step 0. Initial Condition is random perturbation about  $c = 0.5$ .

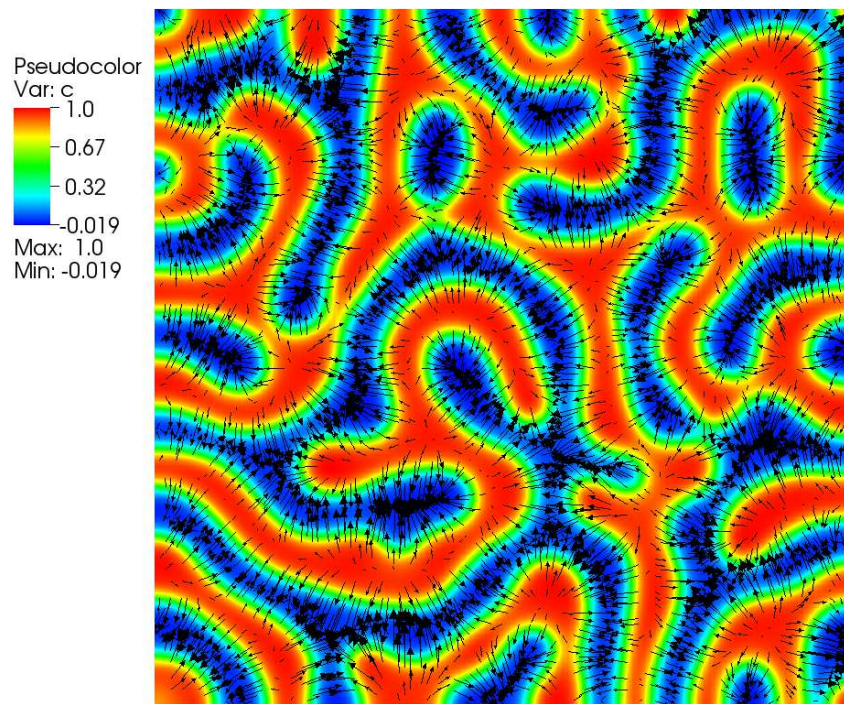


Figure 2: Composition field and displacement vectors at step 10000.

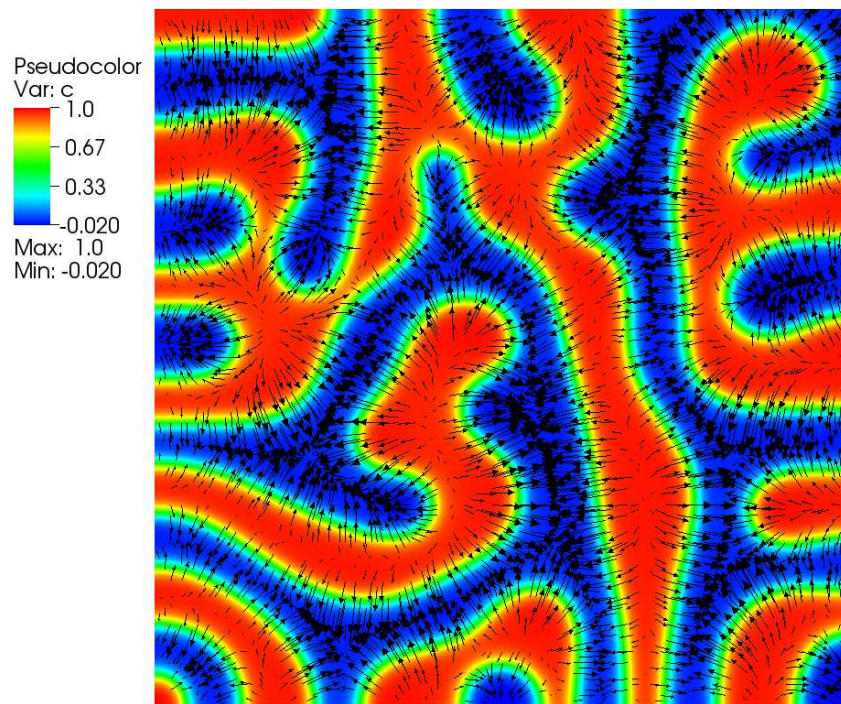


Figure 3: Composition field and displacement vectors at step 30,000



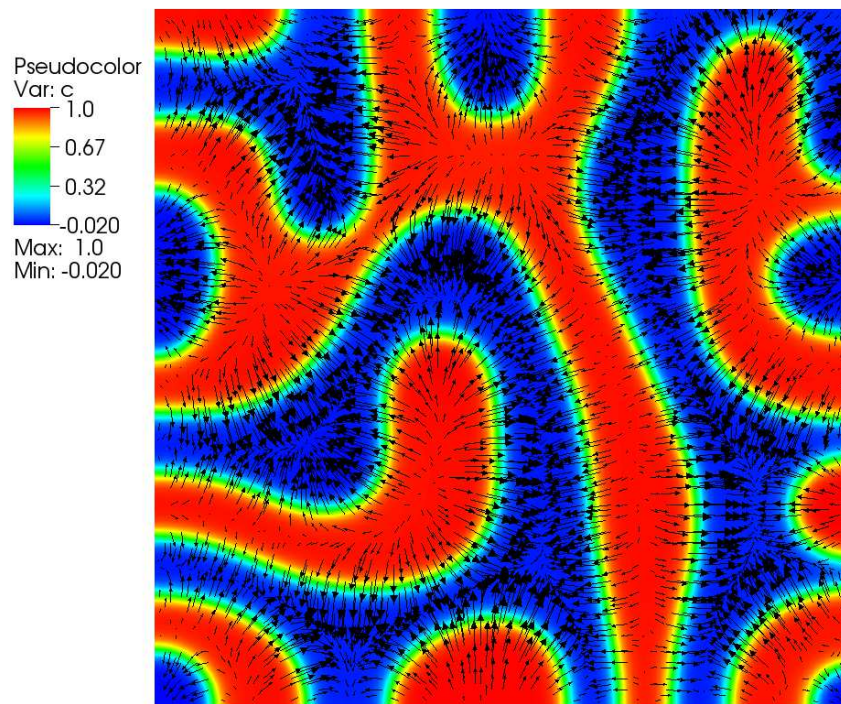


Figure 4: Composition field and displacement vectors at step 72,000