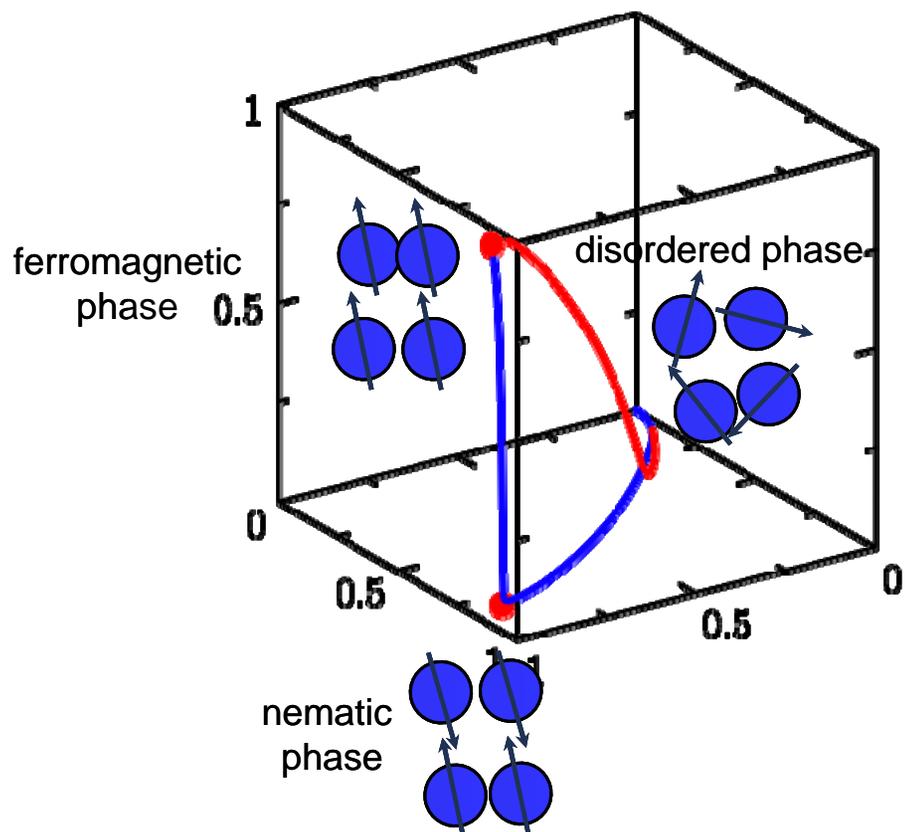


Can we predict crystallization pathways?

Steve Whitlam
EFRC: Nano-scale controls on Geologic CO₂



- We have only rules of thumb for predicting crystallization pathways (e.g. Ostwald).
- But analysis of a prototypical model of interacting particles shows where in phase space a disordered fluid should transform directly into a stable phase (red path) or first form an intermediate phase (blue path)
- Prediction is possible for idealized models: can we do the same for real materials?

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