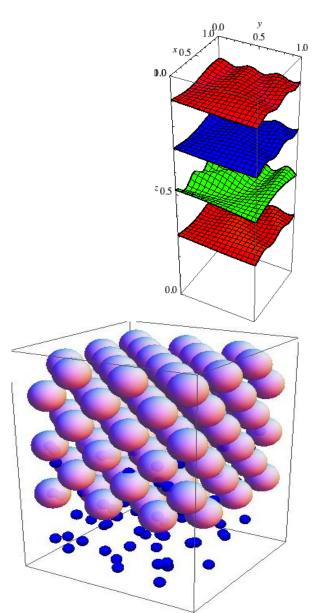
Modeling the Coupling of Elastic Anisotropy and Network Topology in Poroelastic Transport

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Phase-Field Model of Poroelasticity

- -phase-field description of porous medium
- -elastic deformation is incorporated
- model of imbibition

Atomistic Simulation of Diffusion

- combined MD and GCMC simulations
- reservoir of smaller atoms
- coupling of diffusive and elastic fields