

Manuel Friedrich: Equilibrium configurations for epitaxially strained crystalline films

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In this talk, we revisit results obtained on the existence of minimizers and relaxation for energies related to epitaxially strained crystalline films. We first extend the analysis to the framework of three-dimensional linear elasticity. Afterwards, we discuss a rigorous relation between models in nonlinear and linearized elasticity for both continuum and atomistic energies. Based on joint works with Vito Crismale, Leonard Kreutz, and Konstantinos Zemas.