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Gamma-convergence results for diffuse interface approximations of elastic bending energies

In this talk I will present some results on the sharp interface limit of two families of functionals that are both defined as the sum of the so-called Cahn-Hilliard energy and of a term related to the L^2 -norm of its first variation. In particular I will focus on the case of two space dimensions, and study the Gamma-limit of the two families of functionals on non-smooth phase boundaries.