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A. Chambolle : Discrete to continuous crystalline curvature flow

vendredi 13 septembre 2024 11:20 (40 minutes)

In this joint work with Daniele DeGennaro (CEREMADE, Parma) and Massimiliano Morini (Parma) we study a fully space and time discrete implicit approximation of the curvature flow, for a surface tension defined by pairwise interactions on the discrete lattice (with bounded range). We study the convergence as the space and time steps go to zero (with different possible regime) and find, surprisingly, that in some cases we get a limiting crystalline curvature flow in any convergence regime.