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Crystalline motion of spiral-shaped polygonal curve with a tip motion

We consider a behavior of an infinite-length polygonal curves by crystalline curvature flow with a driving force. This motion is a very simple model of step motion on a crystal surface. In this talk, we treat a curve with one end, which is called tipänd give a motion of the tip. For simplicity, we only consider the case that the trajectory of the tip is closed convex polygonal curve and discuss the behavior of spiral-shaped solutions.