Some aspects of anisotropic curvature flow of planar partitions

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Abstract. We consider the geometric evolution of a network in the plane, flowing by anisotropic curvature. We discuss local existence of a classical solution in the presence of several smooth anisotropies. Next, we discuss some aspects of the polycrystalline case.

Keywords. Anisotropy, network, partition, triple junctions, crystalline curvature, curvature flow.