MIN CHEN, McGill University

IN-HOMOGENEOUS GAUSS CURVATURE FLOWS

We consider the flow of convex hypersurfaces in Euclidean space R^{n+1} under the in-homogeneous speed functions of Gauss curvature. We establish the existence and convergence of the flow to a limit which is the round sphere (after rescaling) under appropriate conditions of the speed functions. This generalized the celebrated results on Gauss curvature flow by Andrews-Guan-Ni and Brendle-Choi-Daskalopoulos. This is joint work with Prof.Pengfei Guan and Jiuzhou Huang.