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An asymmetric flow with many symmetric solutions

We define an isotropic, asymmetric, flow on smooth, compact, convex surfaces in Euclidean 3-space that exhibits distinct centrally-symmetric self-similar solutions including the Euclidean ball. The flow is not affine invariant, yet ellipsoids of revolution evolve self-similarly and can be generalized in all dimensions. This is joint work with Valentina-Mira Wheeler.