

Neckpinches in mean curvature flow and Ricci flow

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We survey results concerning the precise asymptotics of rotationally symmetric solutions of mean curvature flow or Ricci flow. In particular, we will study how certain noncompact hypersurfaces evolve under mean curvature flow while their highest curvature blows up at Type-II rates, and describe the precise asymptotics of these solutions. This is joint work with James Isenberg.