Longzhi Lin* (lzlin@ucsc.edu), Mathematics Department, University of California, Santa Cruz, 1156 High Street, Santa Cruz, CA 95064, and Robert Haslhofer, Courant Institute of Mathematical Sciences, New York University. Star-shaped mean curvature flow.

Recently Haslhofer and Kleiner used Andrew’s α-noncollapsing result to give a new treatment of the theory of mean convex mean curvature flows, which was established earlier by White and Huisken-Sinestrari in a series of works. In this talk we will discuss the analogous local curvature and convexity estimates for star-shaped mean curvature flows and the consequences. This is joint work with Robert Haslhofer. (Received August 19, 2014)