1114-53-54 **Robert Haslhofer*** (robert.haslhofer@gmail.com) and **Or Hershkovits** (or.hershkovits@cims.nyu.edu). *Mean convex level set flow in general ambient manifolds.*

We prove two new estimates for the level set flow of mean convex domains in Riemannian manifolds. Our estimates give control - exponential in time - for the infimum of the mean curvature, and the ratio between the norm of the second fundamental form and the mean curvature. In particular, the estimates remove a stumbling block that has been left after the work of White and Haslhofer-Kleiner, and thus allow us to extend the structure theory for mean convex level set flow to general ambient manifolds of arbitrary dimension. (Received August 03, 2015)