1147-53-631 Shaosai Huang* (sshuang@math.wisc.edu), 480 Lincoln Dr., Madison, WI 53706. Distance distortion estimates for Ricci flows with collapsing initial data.

In this talk we present a uniform distance distortion estimate for Ricci flows with uniformly bounded scalar curvature, independent of the lower bound of the initial μ -entropy. We show that once correctly renormalized, the metric-measure quantities obey similar estimates as in the non-collapsing case; espeically, the lower bound of the renormalized heat kernel, observed on a scale comparable to the initial diameter, matches with the lower bound of the renormalized volume ratio, giving the desired distance distortion estimate. (Received January 27, 2019)