A Ricci flow exhibits a Type I singularity if the curvature blows up at a certain rate near the singular time. Type I singularities are abundant and in fact it is conjectured that they are the generic singular behaviour for the Ricci flow on closed manifolds.

In this talk, I will describe some new integral curvature estimates for Type I flows, valid up to the singular time. These estimates partially extend to higher dimensions an estimate that was recently shown to hold in dimension three by Kleiner–Lott, using Ricci flow with surgery.

In this work we use the monotonicity formula available for Type I Ricci flows, adapting the technique of quantitative stratification of Cheeger–Naber to this setting. (Received July 21, 2017)