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Yuanqi Wang* (wangyuanqi@math.ucsb.edu), Goleta, CA 93117. *On the Kähler-Ricci flow near a Kähler-Einstein metric.* Preliminary report.

This is a joint work with Song Sun. Motivated by recent study of the convergence of Calabi flow near a constant scalar curvature Kähler metric, we prove a similar theorem on the stability of the Kähler-Ricci flow near a Kähler-Einstein metric of positive scalar curvature. We will give an example on jumping of the complex structure under Ricci flow and discuss on the linear stability of Kähler Ricci solitons. (Received September 08, 2012)