Olivier Biquard and Heather Macbeth* (hmacbeth@mit.edu). Kähler-Ricci solitons on crepant resolutions. Preliminary report.

By a gluing construction, we produce steady Kähler-Ricci solitons on crepant resolutions of $\mathbb{C}^n/G$, where $G$ is a finite subgroup of $SU(n)$, generalizing Cao’s construction of such a soliton on a resolution of $\mathbb{C}^n/\mathbb{Z}_n$. (Received September 26, 2017)