1099-51-193 Matthieu Gendulphe and Christopher Judge* (cjudge@indiana.edu), 831 East Third, Bloomington, IN 47405. Well-rounded translation surfaces. Preliminary report.

We show that each stratum of translation surfaces (abelian differentials) deformation retracts onto those translation surfaces whose relative homology is generated by short saddle connections. We make some observations about the geometry of the retration. (Received February 08, 2014)