1072-57-200 **Matthew Hedden** (mhedden@math.msu.edu), Department of Mathematics, Michigan State University, East Lansing, MI 48824, and **Adam Simon Levine*** (levinea@brandeis.edu), Department of Mathematics, Brandeis University, Waltham, MA 02453. *Splicing Knot Complements and Bordered Heegaard Floer Homology.*

Let $K_1 \subset Y_1$ and $K_2 \subset Y_2$ be knots in homology three-spheres, and let $Y(K_1, K_2)$ be the homology three-sphere obtained by gluing together the complements of $K_1$ and $K_2$ via a map that takes meridian to 0-framed longitude and vice versa. We show using bordered Heegaard Floer homology that if $K_1$ and $K_2$ are both nontrivial knots, the Heegaard Floer homology group $\widehat{HF}(Y(K_1, K_2))$ has rank greater than 1. (Another proof of this fact is due to Eftekhary.) Thus, a three-manifold $Y$ with $\operatorname{rank} \widehat{HF}(Y) = 1$ cannot contain an incompressible torus. (Received June 28, 2011)