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Matthew Hedden (mhedden@math.msu.edu) and **Adam Simon Levine***
(levinea@brandeis.edu). *Bordered Floer homology and splicing knot complements.*

We use bordered Floer homology to study 3-manifolds obtained by gluing together two knot complements (gluing meridian to longitude). If the knots are non-trivial knots in S^3 , we show that the Heegaard Floer homology of the resulting manifold has rank greater than one. By extending this approach to knots in arbitrary three manifolds, we hope to prove that a manifold whose Heegaard Floer homology has rank one cannot contain an incompressible torus. (Received September 24, 2012)