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Evan Fink* (efink@math.uga.edu), Department of Mathematics, University of Georgia, Athens, GA 30602. *Periodic mapping classes and surgery formulas*. Preliminary report.

The Heegaard Floer homology of a 3-manifold obtained by surgery on a knot can be computed from the knot Floer homology of the knot by means of surgery formulas. We use these formulas to compute the Heegaard Floer homology of mapping tori of periodic surface automorphisms, and of manifolds admitting an open book decomposition with periodic monodromy. (Received January 18, 2011)