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**Matthew Hedden** and **Thomas E. Mark\*** (tmark@virginia.edu), Department of Mathematics, PO Box 400137, University of Virginia, Charlottesville, VA 22904-4137. *Floer homology and the fractional Dehn twist coefficient.*

An open book decomposition of a 3-manifold  $Y$  is essentially a choice of fibered link embedded in  $Y$ . For a fibered knot (i.e. a one-component link), the monodromy of the fibration on the complement gives rise to a rational number called the fractional Dehn twist coefficient. This number measures the twisting of the monodromy around the boundary of the fiber surface. I will describe how the Heegaard Floer homology of a 3-manifold  $Y$  provides bounds for the fractional Dehn twist coefficient of any open book decomposition of  $Y$  with connected binding. This is joint work with Matthew Hedden. (Received September 23, 2012)