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**Peter S Ozsvath\*** ([petero@math.berkeley.edu](mailto:petero@math.berkeley.edu)), Department of Mathematics, University of California at Berkeley, Berkeley, CA. *Surgery formulas for Heegaard Floer homology and applications.*

I will describe how Heegaard Floer homology groups transform under Dehn fillings of a knot in terms of its "knot Floer homology". This has applications to certain Dehn surgery questions for knots in the three-sphere. This material is joint work with Zoltan Szabo. (Received February 19, 2005)