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Cagatay Kutluhan* (kutluhan@math.columbia.edu), Department of Mathematics, Columbia University, 2990 Broadway, New York, NY 10027, **Yi-Jen Lee** (yjlee@math.purdue.edu), Department of Mathematics, Purdue University, West Lafayette, IN 47907, and **Clifford Henry Taubes** (chtaubes@math.harvard.edu), Department of Mathematics, Harvard University, Cambridge, MA 02138. *Heegaard Floer homology and Seiberg–Witten Floer homology.*

Let M be a closed, connected and oriented 3-manifold. We construct isomorphisms between the Heegaard Floer homology groups of M and the corresponding balanced versions of the Seiberg–Witten Floer homology groups of M . In this talk we give an overview of our construction and emphasize essential ingredients. This is joint work with Yi-Jen Lee and Clifford Henry Taubes. (Received August 09, 2010)