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William E Olsen* (wolsen@uga.edu). *Applications of Heegaard Floer theory to trisections of four-manifolds*. Preliminary report.

Heegaard Floer homology is a powerful tool for studying the topology of three- and four-manifolds. In this presentation, we will focus on the so-called 'mixed invariants' of closed four-manifolds as defined by Peter Ozsváth and Zoltán Szabó. We will give an outline of current work in progress on how one might hope to apply these invariants to the theory of trisections of four-manifolds. (Received February 20, 2018)