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**Matthew Hedden** and **Katherine Raoux\*** (raouxkat@msu.edu), 619 Red Cedar Rd, East Lansing, MI 48824. *Knot Floer Homology and Relative Adjunction Inequalities*.

In this talk, we present a relative adjunction inequality for 4-manifolds with boundary. We begin by constructing generalized Heegaard Floer tau-invariants associated to a knot in a 3-manifold and a nontrivial Floer class. Given a 4-manifold with boundary, the invariant associated to a Floer class provides a lower bound for the genus of a properly embedded surface provided that the Floer class is in the image of the cobordism map induced by the 4-manifold. We will also discuss applications to links and contact manifolds. This is joint work with Matt Hedden. (Received January 14, 2021)