1086-57-596 **Tye Lidman** and **Ciprian Manolescu*** (cm@math.ucla.edu), UCLA, Mathematics Department, 520 Portola Plaza, Los Angeles, CA 90095. *Monopole Floer homology and covering spaces.*

I will discuss a Smith-type inequality for regular covering spaces in monopole Floer homology. We use the definition of monopole Floer homology as the homology of the Seiberg-Witten-Floer spectrum. There is a notion of spectrum-L-space, which is conjecturally the same as an L-space. A corollary of the main theorem is that if an oriented 3-manifold Y admits a p^n-sheeted regular cover that is a Z/p-spectrum-L-space (for p prime), then Y itself is a Z/p-spectrum-L-space. (Received September 08, 2012)