1070-57-309 **Eric Chesebro** and **Jason DeBlois*** (jdeblois@math.stanford.edu). *Hidden symmetries of links via mutations with hidden extension.*

Given a 3-manifold M with non-empty boundary, say that an automorphism ϕ of a surface $S \subset \partial M$ has a *hidden extension* if there is a finite-degree cover $N \to M$ and a lift of ϕ to the preimage of S that extends over N. I will describe an example where a mutation with hidden extension gives rise to a family of hyperbolic link complements in S^3 that have hidden symmetries. (Received February 15, 2011)