

1153-57-320

Brandy Doleshal and **Matt Rathbun*** (mrathbun@fullerton.edu). *Genus 2 Goeritz
Equivalence in S^3 .*

We will discuss the Goeritz group (and introduce the extended Goeritz group) of a Heegaard splitting. The surface slope of a knot on a Heegaard surface, as well as certain homological conditions are preserved by the actions of the (extended) Goeritz group. As a result, we provide a method for determining whether two knots on a Heegaard surface with non-zero slope are in the same orbit of the (extended) Goeritz group. (Received August 31, 2019)