
XINGHUA GAO, University of Illinois, Urbana-Champaign
Orderability of Dehn Fillings

Boyer, Gordon, and Watson conjectured that an irreducible rational homology 3-sphere is not an L-space if and only if its fundamental group is left-orderable. In a recent work, Culler and Dunfield showed how to use $\widehat{PSL}_2(\mathbb{R})$ representations and the so called translation extension locus to construct orders on intervals of Dehn filling of certain one-cusped 3 manifolds. In this talk, I'll show how to use a similar technique to construct orders on Dehn fillings of some other one-cusped 3 manifolds.