1145-51-1701 Xinghua Gao* (xgao29@illinois.edu). 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 encode information of elliptic $\widetilde{PSL_2\mathbb{R}}$ representations of a one-cusped 3 manifold in the translation extension locus and use it to construct orders on intervals of Dehn fillings. In this talk, I will show how to construct the holonomy extension locus from hyperbolic $\widetilde{PSL_2\mathbb{R}}$ representations and use it to construct orders on some other Dehn fillings. (Received September 24, 2018)