

1094-57-27

Anh T Tran* (tran.350@osu.edu), Department of Mathematics, The Ohio State University, 231 West 18th Avenue, Columbus, OH 43210. *On left-orderable fundamental groups and Dehn surgeries on knots.*

We show that the resulting manifold by r -surgery on a large class of two-bridge knots has left-orderable fundamental group if the slope r satisfies certain conditions. This result gives a supporting evidence to a conjecture of Boyer, Gordon and Watson that relates L -spaces and the left-orderability of their fundamental groups. (Received July 16, 2013)