

1171-57-232

Robert Haraway and **Neil R Hoffman*** (neil.r.hoffman@okstate.edu), 401 Mathematical Sciences Building, Stillwater, OK 74078, and **Eric Sedgwick** and **Saul Schleimer**. *Bounds on crossing number via knot diagram recovery.*

Gordon and Luecke showed that knots are determined by their complements. However, the current methods for recovering a knot diagram from a knot complement are very ad hoc. I will discuss joint work with Haraway, Sedgwick, and Schleimer, which gives a robust method for recovering knot diagrams from triangulations with special attention to the complexity of the diagram that comes out of our techniques. (Received August 17, 2021)