1108-57-466 Nicholas Troy Zufelt* (nzufelt@math.utexas.edu). The combinatorics of reducible Dehn surgeries. Preliminary report.

We use the combinatorial techniques of graphs of intersection to study reducible Dehn surgeries on knots in the threesphere. In particular, in the event that such a reducible surgery produces a manifold with more than two connected summands, we show that the surgery coefficient is bounded above by the bridge number of the knot. As a consequence, this possibility is ruled out for knots with bridge number less than six and for positive braid closures. (Received January 19, 2015)