

1154-57-610

Felipe Castellano-Macias and **Nicholas Owad*** (nick@owad.org). *Computation of tunnel numbers for low crossing knots.*

Tunnel number is a notoriously hard invariant to compute in general. But for knots with low crossing number, we can get useful bounds from many important results, such as Lackenby's classification of alternating tunnel number one knots and others. These bounds have completely computed the tunnel number of 11 and 12 crossing alternating knots, allowing us to greatly increase the known values of tunnel numbers. We discuss some of the other ways we can compute tunnel number and how we can push these bounds further to find more tunnel numbers. (Received September 08, 2019)