

1106-55-1247

Seong Ju Kim, Ryan Stees* (steesrc@dukes.jmu.edu) and **Laura Taalman.** *Spiral Knot Determinants.*

Spiral knots are a generalization of the well-known class of torus knots. We have completely characterized the determinants of spiral knots with 2, 3, and 4 strands both in terms of a Jordan Canonical Form calculation using a new periodic crossing matrix method and in terms of recurrence relations that hint at a pattern that could hold for general spiral knots. (Received September 11, 2014)