

1042-57-183

**Tim D Cochran\*** (cochran@rice.edu), Math Department MS 136, Rice University, PO Box 1892, Houston, TX 77251-1892, and **Shelly Harvey** and **Constance Leidy**. *The Fractal Nature of Link Concordance*. Preliminary report.

We explain what we mean by, and offer evidence for, a “fractal” behavior in the set of knot concordance classes. In particular, for any positive integer  $n$ , and any sequence of  $n$  irreducible integral polynomials, we exhibit an infinite rank subgroup of the knot concordance group, consisting entirely of  $n$ -solvable knots; and we show that, under some mild restriction, the subgroups corresponding to different sequences of polynomials have trivial intersection. (Received August 18, 2008)