

1162-05-140

P. Mark Kayll* (mark.kayll@umontana.edu). *On coloring and D-coloring large-girth digraphs.*

Erdős' 1959 article establishing the existence of graphs with arbitrarily large girth and chromatic number not only exposed a facet of a diamond —the then-nascent probabilistic method—but also sparked a cottage industry refining and polishing his gem. Partly historical, partly contemporary, this talk traces a thread analogizing graphs to digraphs, generalizing coloring to homomorphing, and adding uniqueness to the mix. (Received August 30, 2020)