

1138-05-205

Beth Bjorkman, Garner Cochran* (gcochran@math.sc.edu), **Wei Gao, Lauren Keough, Rachel Kirsch, Mitch Phillipson, Danny Rorabaugh, Heather Smith and Jennifer Wise.**
k-foldability of words.

We extend results regarding a combinatorial model which generalizes the folding of the RNA molecule in biology, first introduced by Black, Drellich, and Tymoczko (2017+). RNA is represented by a word from the alphabet of nucleotides A, U, C, and G in which Watson-Crick bonds form between nucleotides A and U and between C and G. The resulting two-dimensional structure is generally modeled as a planar tree with edges representing bonds. (Received February 09, 2018)