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Jane Ivy Coons* (janeivycoons@gmail.com) and **Joseph Rusinko**. *Combinatorics of k -Interval Cospeciation for Cophylogeny*.

We show that the cophylogenetic distance, k -interval cospeciation, is distinct from other metrics and accounts for global congruence between locally incongruent trees. The growth of the neighborhood of trees which satisfy the largest possible k -interval cospeciation with a given tree indicates that k -interval cospeciation is useful for analyzing simulated data. (Received August 26, 2014)