

1125-05-1762 **Everett Sullivan*** (everett.n.sullivan.gr@dartmouth.edu). *Linear chord diagrams with long chords.*

Linear chord diagrams, also known as matchings, are pairings of integers into sets of size two. This important combinatorial object arises in the fields of permutation patterns, knot theory, genomic rearrangements, and others. When restricting to the subset of chord diagrams with a prescribed minimum length interesting geometric sequences appear. We prove the existence of these geometric sequences bijectively. (Received September 19, 2016)