

**COMMENT ON JASON BANDLOW AND KENDRA
KILLPATRICK: “AN AREA-TO-INV BIJECTION
BETWEEN DYCK PATHS AND 312-AVOIDING
PERMUTATIONS”**

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The bijection given in the paper [1] is the same (modulo the trivial transformation that converts 312-avoiding permutations to 132-avoiding permutations, i.e., the transformation which sends every letter l in a permutation of $1, 2, \dots, n$ to $n - l + 1$) as the bijection in [4, Section 2], where it is described in a different, but equivalent, way. An alternative and simpler description of this bijection is contained in [3, Section 3.1] from which the “area-to-inversions” property is transparent.

Furthermore, Lemma 4 in [1] is identical with [4, (3.2)] (again, modulo the same transformation), from which then a continued fraction result due to Mansour and Vainshtein [5], and some further generating function results are derived. It should also be mentioned that the continued fraction result has been recently refined by Brändén, Claesson, and Steingrímsson in [2].

REFERENCES

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