

1014-05-558

Kendra S Killpatrick* (Kendra.Killpatrick@pepperdine.edu), Pepperdine University, Natural Science Division, 24255 Pacific Coast Highway, Malibu, CA 90263-4321, and **Naiomi Cameron** (ncameron@oxy.edu). *Domino Fibonacci Tableaux*. Preliminary report.

In 2001, Shimozono and White gave a description of the domino Schensted algorithm of Barbasch, Vogan, Garfinkle and van Leeuwen with the “color-to-spin” property, that is, the property that the total color of the permutation equals the sum of the spins of the domino tableaux. In this talk, we describe the poset of domino Fibonacci shapes, an isomorphic equivalent to Stanley’s Fibonacci lattice $Z(2)$, and define domino Fibonacci tableaux. We give an insertion algorithm which takes colored permutations to pairs of tableaux (P, Q) of domino Fibonacci shape. In addition, we define a notion of spin for domino Fibonacci tableaux for which the insertion algorithm preserves the color-to-spin property. (Received September 20, 2005)