

1116-05-710

Emily Barnard* (esbarnar@ncsu.edu) and **Nathan Reading**. *Coxeter-biCatalan Combinatorics*. Preliminary report.

We pose counting problems related to the various settings for Coxeter-Catalan combinatorics (noncrossing, nonnesting, clusters, Cambrian). Each problem involves in some sense a “doubling” of a corresponding problem in Coxeter-Catalan combinatorics. We show that the problems all have the same answer, and we call the common solution to these problems for a given finite Coxeter group W the W -biCatalan number. (Received September 10, 2015)