

1110-05-374 **Angela Hicks*** (ashicks@stanford.edu). *Generating the Frobenius Characteristic of the Diagonal Harmonics (Several Ways)*.

The now decade old Shuffle Conjecture connects the Frobenius characteristic of the diagonal harmonics to parking functions. In particular, the parking function statistics area, dinv , and ides are used to generate a symmetric polynomial believed to be equal to this Frobenius characteristic. Refinements of the conjecture add an additional statistic, composition. We discuss several other ways of generating the same polynomials directly, using statistics on pairs of compatible objects, and discuss how these relate to symmetries in related areas of algebraic combinatorics. (Received February 24, 2015)