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Ian Petrow* (ipetrow@math.stanford.edu), 450 Serra Mall, Building #380, Stanford, CA 94305. *Moments of L -functions and Random Matrix Theory.*

A classical method for studying L -functions in families is to consider their k -th power averages over the family, which we call the k -th moment. Based on the idea that there should exist a “spectral interpretation” for L -functions, random matrix theory has been introduced in past 10 years or so to make precise conjectures for asymptotic estimates of moments of L -functions. In this talk, we will present some new results on moments in a case where the family of L -functions has odd orthogonal symmetry. (Received November 10, 2012)