1176-60-127 Mihai Stoiciu* (mstoiciu@williams.edu), Department of Mathematics and Statistics, Williams College, Williamstown, MA 01267. The Eigenvalue Distribution for Random Unitary Matrices: An Approach Using Entropy. Preliminary report.

We consider CMV matrices $C = C(\omega)$ with independent random Verblunsky coefficients $\alpha_n = \alpha_n(\omega)$. The microscopic eigenvalue distribution of the random unitary matrix $C(\omega)$ depends on the rate of decay of the variance of the Verbunsky coefficients $\alpha_n(\omega)$: Poisson for slow decay and "picket fence" (clock) for fast decay. We investigate the transition Poisson-Clock from the perspective of the entropy of the random variables $\{\alpha_n(\omega)\}_{n\geq 0}$. (Received January 18, 2022)