1163-60-1105   **Mihai Stoiciu*** (`mstoiciu@williams.edu`), Department of Mathematics and Statistics, 33 Stetson Ct, Williams College, Williamstown, MA 01267. *Convergent Point Processes and Their Rates of Convergence.* Preliminary report.

We investigate various families of random point processes and their rates of convergence. Motivated by concrete examples of eigenvalue point processes associated to ensembles of random matrices, we construct general families of random point processes that converge to the Poisson point process and to the picket fence point process. We study the rate of convergence of these point processes and apply these methods to the Circular Beta Ensemble. (Received September 14, 2020)