

1133-41-350

Erwin Miña-Díaz* (minadiaz@olemiss.edu), The University of Mississippi, Department of Mathematics, Hume Hall 305, P. O. Box 1848, University, MS 38677, and **Arno Kuijlaars**.

Universality for conditional measures of the sine point process.

The sine process is a determinantal point process in the real line with correlation kernel $\frac{\sin \pi(x-y)}{\pi(x-y)}$. It is obtained as a limit from the eigenvalues of many random matrices as their size tends to infinity. The sine process has the remarkable property of being rigid (in the sense of Ghosh and Peres), meaning that for almost all configurations, the number of points in an interval $[-R, R]$ is determined by the points outside of the interval. The conditional measures is the joint distribution of the points in $[-R, R]$ given the points outside. Alexander Bufetov showed that these are orthogonal polynomials ensembles with a weight constructed out of the points outside $[-R, R]$. We prove a universality result for these orthogonal polynomials ensembles that in particular implies that the correlation kernel of the orthogonal polynomials ensemble tends to the sine kernel as $R \rightarrow \infty$, answering a question posed by Bufetov. (Received August 01, 2017)