

Characteristic polynomial outside of the support

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When taking a sequence of random polynomials with independent coefficients, there may remain zeros outside of the limiting support, and the behavior of these zeros depends on the law of its coefficients.

After recalling this fact, we will see that this does not happen when the random polynomials arise as the characteristic polynomials of a family of non-Hermitian random matrices.

Moreover, some kind of universality may be observed which is linked to the universality of the fluctuations of its eigenvalues.

This is based on a joint work with Charles Bordenave and Djalil Chafaï, and a joint work with Quentin François.

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