Universality in complex Wishart ensembles





Results



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Global eigenvalue statistics



Local eigenvalue statistics



Multiple Laguerre polynomials











Stieltjes transform







Lemma 1 If z . u.e. $\underline{F})$, then $m \not \sim m_{\underline{F}} z)$ satisfies the following.

1. $m \quad \mathbb{R}$;

2. $-\frac{1}{m}$. U = H;

3. z'(m) .

Conversely, if m satisfies 1-3, then $z \not = z m$. $u \not = \underline{F}$.

$$z' \sim n \sim n \sim n \sim f \sim u \sim .$$



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Summary



