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题目: Random bounded analytic function by random measure

摘要: To any non-constant analytic self-map of the unit disk  $\varphi : \mathbb{D} \rightarrow \mathbb{D}$  corresponds a family of Borel measures  $\{\nu_\alpha\}_{\alpha \in \mathbb{T}}$  indexed by  $\alpha \in \mathbb{T} = \partial\mathbb{D}$ , called e.g. the Clark measures. These measures play an important role in many topics, especially but not restricted to operator theory and spectral theory. Together with Eero Saksman, we initiate the study of random analytic self-maps  $\varphi : \mathbb{D} \rightarrow \mathbb{D}$  for which the law of one of its Clark measure  $\nu_{\alpha=1}$  is a Gaussian multiplicative chaos measure “ $e^{\gamma X}$ ”, where  $X$  is a log-correlated field over  $\mathbb{T}$ . In this talk, we focus on explaining that the random analytic function  $\varphi$  is almost surely a Blaschke product and provide precise estimate on the density of its zeroes.