

1027-82-188

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Computing linear statistics in random matrix theory can often be reformulated as a problem about the asymptotics of operators. The classical Szego-Widom formula is an example of this idea where the underlying ensemble is the classical CUE ensemble. Other ensembles involve other important classes of operators, especially those with singular symbols. The talk will describe some of the asymptotics of determinants of these other operators, in particular for a sum of finite Toeplitz and Hankel matrices generated by different symbols. (Received February 26, 2007)