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Asymptotics for determinants with Fisher–Hartwig singularities

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Abstract

The speaker will describe **joint work with A. Its and I. Krasovsky** on the asymptotics of determinants (Toeplitz, Hankel and of mixed type) with Fisher–Hartwig singularities. The speaker will show, in particular, how to use Riemann–Hilbert techniques to resolve a basic conjecture for such asymptotics due to Basor and Tracy.