

Kesten measures in classical and non-commutative probability

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In my talk I will show that KESTEN measure $(A - x^2)^{1/2}(1 - Bx^2)^{-1}dx$, for $A > 0$, and B real is

1. Spectral measure of random walks on homogenous trees.
2. Central limit measure in free ,Boolean ,monotone and conditionally free probability.
3. Analogue of "1/cosh" law in free probability for $B \leq 0$.
4. For some parameters A and B the free Bernoulli law.
5. Connected with some random mat! rices.
6. Connected with non-commutative Khinchine inequality and noncommutative Sidon and others lacunary sets.

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