

Random square-tiled surfaces of large genus and random interval exchange transformations of large number of intervals

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It is common in mathematics to study decompositions of compound objects into primitive blocks. For example, the Erdos-Kac Theorem describes the prime decomposition of a random integer number into prime factors. There is a detailed information on the decomposition of a random permutation into disjoint cycles.

I will speak about random square-tiled surfaces of large genus and about random interval exchange transformations of large number of intervals. The talk will combine recent rigorous results and some conjectures, old and new.