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Universal local limits for lozenge tilings and noncolliding random walks

The talk is about random lozenge tilings of large domains on the triangular grid and noncolliding simple random walks started from arbitrary initial conditions. We will discuss universal bulk local behavior for both systems and see the appearance of translation invariant ergodic Gibbs measures on tilings of the plane. An important role in the study is played by tilings of trapezoid domains: these are the most accessible integrable cases because of their connections to representation theory and symmetric functions.

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