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Large Genus Asymptotics for Intersection Numbers

Wednesday, May 25, 2022 11:55 AM (45 minutes)

In this talk we explain results on the large genus asymptotics for intersection numbers between ψ-classes on the moduli space of curves. By combining this result with a combinatorial analysis of recently proven formulas of Delecroix-Goujard-Zograf-Zorich, we further describe some features about how random flat surfaces of large genus look. The proof uses a comparison between the recursive relations (Virasoro constraints) that uniquely determine them with the jump probabilities of a certain asymmetric simple random walk.

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