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Asymptotics for graph complex Euler characteristics

Tuesday, August 30, 2022 11:10 AM (50 minutes)

I will report on a work on the asymptotic growth rate of the top-weight Euler characteristic of the moduli space of curves and on an ongoing joint work with Karen Vogtmann on the topology of $\text{Out}(F_n)$. In both cases, graph complexes, which compute the cohomology of the respective spaces, are instrumental. Proofs for the super-exponential asymptotic growth rate of the Euler characteristics in each case establish the existence of large amounts of unexplained cohomology both in $\text{Out}(F_n)$ and the top-weight cohomology of the moduli space of curves.

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