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COUNTING CURVES AND MEASURES ON THE SPACE OF CURRENTS

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Given a surface of negative Euler characteristic, consider the the mapping class group orbit of a closed curve on the surface. The asymptotic growth of the number of curves in this orbit of bounded hyperbolic length is known due to Mirzakhani. In this talk I will discuss some generalizations of this result. I will focus on a recent, related result with Gabrielle Mondello classifying all mapping class invariant measures on the space of geodesic currents.