Wednesday, August 07, 2019

4:00pm-5:00pm  RTG Seminar on Geometry, Dynamics and Topology -- Francisco Arana Herrera (Stanford) *Counting hyperbolic pair of pants decompositions with respect to lengths of individual cuffs* -- 2866 East Hall
Abstracts for the week of August 4th, 2019 - August 10th, 2019

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Wednesday, August 07, 2019, 4:00pm-5:00pm
2866 East Hall
Francisco Arana Herrera (Stanford)

Counting hyperbolic pair of pants decompositions with respect to lengths of individual cuffs

Although the results in Mirzakhani’s thesis allow one to count hyperbolic pair of pants decompositions with respect to their total length, it seems hard to approach the problem of counting hyperbolic pair of pants decompositions with respect to lengths of individual cuffs using the same methods; the mapping class group action is not ergodic on products of spaces of measured geodesic laminations. We will show how to approach this problem using a different set of ideas introduced by Mirzakhani in her later work: equidistribution of horoballs in moduli spaces of hyperbolic surfaces.