

Boğaziçi Math Seminar

Fast Computations in Mapping Class Groups via Global Coordinates

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Abstract:

I will discuss joint work with Margalit, Strenner and Taylor that gives a quadratic-time algorithm to compute the stretch factor and the invariant foliations for a pseudo-Anosov element of the mapping class group. Our algorithm can efficiently be realized by making use of global coordinates on the boundary of Teichmüller space. If time permits, I will illustrate the method with a concrete example.

Date : Wednesday, November 5, 2025

Time: 13:30

Place: TB 130, Boğaziçi University