

Cornell Dynamical Systems Seminar

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Teichmüller curves in genus three

A Teichmüller curve is an algebraic curve in the moduli space M_g of genus g Riemann surfaces which is isometrically immersed with respect to the Teichmüller metric on M_g . These curves are very interesting objects from several points of view, including dynamics, algebraic geometry and number theory. Several years ago, the classification of Teichmüller curves in M_2 was completed by McMullen, but little is known in higher genus. In this series of talks, I'll discuss work with Martin Moeller on the problem of classifying Teichmüller curves in M_3 .

Friday, December 3, 2010, 2:15 pm, in 205 Malott Hall