

Applications of translation surfaces to dynamics and geometry

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Thursday, November 21, 2002

102 Bradley Hall, 4:00 pm
(Tea 3:30 pm Math Lounge)

Abstract

A translation surface is a surface modelled geometrically by the Euclidean plane. Such surfaces arise in the study of certain dynamical systems, in the deformation theory of minimal surfaces, and in Teichmüller theory. I will provide a precise description of a translation surface, furnish concrete examples, and give a survey of applications.