

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Colloquium

BI-LAGRANGIAN STRUCTURES AND TEICHMÜLLER THEORY

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Abstract

A bi-Lagrangian structure is given by two transverse Lagrangian foliations in a symplectic manifold. We study these structures in the complex-analytic setting and their possible relation to hyper-Kähler structures in the complexification of Kähler manifolds. We show that bi-Lagrangian structures can be relevant in studying moduli spaces in Teichmüller theory, in particular quasi-Fuchsian space. This is joint work with Andy Sanders.

Wednesday, 9 December 2015 4:00 pm Smith Hall 204

Tea and refreshments will be served at 3:45pm.

http://math.newark.rutgers.edu/~xiaowwan/Colloquium/