

Integrable System Seminar

Geometry of Integrable Lattice Hierarchies, Part II

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Abstract

The factorization method of solving the Toda lattice gives a connection between the solutions of the Toda lattice and Pücker coordinates in a homogeneous space. We will show that this leads to the presence of tau-functions which generate solutions. The tau-functions are solutions to an interesting family of differential equations in their own right. If there is time we will discuss a relationship between the Toda lattice and a numerical algorithm for matrix diagonalization.

Date: **Monday, September 28, 2009**

Time: 3:00pm–4:00pm

Place: MAGC 1.410

For further information or for special accommodations, please contact Dr. Virgil Pierce via email at piercevu@utpa.edu.