

GEOMETRY & PHYSICS

SEMINAR

6 dezembro | 14:00 | sala 6.2.33

Introduction to isomonodromy deformations and applications

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Abstract:

This is intended to be an introductory seminar for a wide audience, including students.

In the first two thirds of the seminar, I will introduce the theory of isomonodromy deformations of linear differential systems, which is a powerful tool in the area of integrable systems. I will motivate it by problems in analysis (Painleve' differential equations) and geometry (Dubrovin-Frobenius manifolds).

In the last third of the seminar, I will briefly sketch some main research results and problems in the above framework, which have been the object of my work, including collaborators here in Lisbon.





