

UFSCar

DEPARTAMENTO DE MATEMÁTICA

COLÓQUIO

Prof. Dr. Nikos Georgiou

Institute of Technology, Tralee (Irlanda) / IME-USP (Brasil)

Falará sobre:

The Hamiltonian stability of area stationary surfaces in the space of oriented geodesics in hyperbolic 3-spaces

Resumo. The space of oriented geodesics in hyperbolic 3-space is a 4-dimensional manifold that inherits a canonical neutral Kahler Structure. I first describe this construction and investigate The Submanifold Theory. I then focus on The Surface Theory and in particular on the minimal surfaces. In the end of this talk, I will present the stability of these surfaces and in particular the Hamiltonian stability.

Bibliografia.

- N. Georgiou and B. Guilfoyle, "On the space of oriented geodesics of hyperbolic 3-space", Rocky Mountain J. Math. 40 (2010) 1183-1219
- N. Georgiou and B. Guilfoyle, "A characterization of Weingarten surfaces in hyperbolic 3-space", Abh. Math. Sem. Hamburg 80 (2010) 233-253
- N. Georgiou, "On maximal surfaces in the space of oriented geodesics of hyperbolic 3-space", arXiv:math.DG/1001.2179

DATA: 30/03/2011 HORÁRIO: 16:00 Hs
LOCAL: Sala 20 (DM - UFSCar)