SEMINÁRIO DE GEOMETRIA

Dia 8 de Setembro (quinta-feira), às 15H00, na sala 6.2.33

A new class of minimal submanifolds

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Abstract:

A basic problem in submanifold theory is to decide if an isometric immersion of a given Riemannian manifold into a space form is unique, up to rigid motions. If this is the case, then the immersion is called rigid. If the immersion is not rigid, then it is a fundamental problem to determine all of its isometric deformations.

The local problem for hypersurfaces was mostly solved by Sbrana and Cartan more than a century ago. A solution to the problem for compact hypersurfaces was given by Sacksteder and by Dajczer-Gromoll in the complete case. I will discuss a contribution to the solution of the global problem in codimension two by means of new classes of minimal immersions.

This is joint work with Th. Vlachos.

Local: Departamento de Matemática, C6 - Piso 2, 6.2.33