Mês de: Dezembro 2009

SEMINÁRIO DE GEOMETRIA

Dia 11 de Dezembro (sexta-feira), às 16h, na Sala B3-01

Constrained Willmore Surfaces

Symmetries of a Möbius Invariant Integrable System

Part II

Áurea Quintino

(CMAF)

Abstract:

We define a Bäcklund transformation of constrained Willmore surfaces.
A permutability between Bäcklund transformation and spectral deformation is established. We define *conserved quantity* of a constrained Willmore surface and approach it under spectral deformation and Bäcklund transformation. The class of CMC surfaces in 3-dimensional space-form is established as the class of constrained Willmore surfaces in 3-space admitting a conserved quantity and, in particular, as a class of surfaces preserved under constrained Willmore transformation, for special choices of parameters.

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