



**Mês de: Fevereiro 2010**

## **SEMINÁRIO DE GEOMETRIA**

**Dia 19 de Fevereiro (sexta-feira), às 16h, na Sala B3-01**

**“Constrained Willmore Surfaces**

Symmetries of a Möbius Invariant Integrable System Part III

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(CMAF)

**Abstract:**

The class of CMC surfaces in 3-dimensional space-form is established as the class of constrained Willmore surfaces admitting a conserved quantity and, in particular, as a class of surfaces preserved under constrained Willmore transformation, for special choices of parameters. We present the classical CMC spectral deformation by means of the action of a family of a loop of flat metric connections and observe that it can be obtained as composition of isothermic and constrained Willmore spectral deformation.

These spectral deformations of CMC surfaces in 3-space are in this way all closely related and, therefore, closely related to constrained Willmore Bäcklund transformation.

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