SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

Hydrodynamic Vortex on Surfaces

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IME - USP

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Resumo: During the last 30 years the usual point vortex model on planar domains has been generalized to curved surfaces. Part of this talk is dedicated to reviewing the subject. Then a general formulation of the point vortex model on surfaces of finite topological type is presented (including the case of massive vortices). At the end some examples are provided.

This is a joint work with H. H. B. Viglioni.