UNICAMP – IMECC
Departamento de Matemática

# Seminário de Sistemas Dinâmicos e Estocásticos

**Expositor:**   P. Ruffino (UNICAMP)

**Título:**   Decomposition of stochastic flows along
complementary distributions

**Data:**   Sexta-feira, 9 de abril de 2010, 13h30min

**Local:**   Sala 321 do IMECC

**Resumo.**   Given two complementary distributions in the tangent bundle of a manifold, we find conditions to factorize an stochastic flow into a diffusion in the (infinite dimensional) Lie group of diffeomorphisms which preserve one distribution (horizontal), composed with a process in the Lie group of diffeomorphisms which preserve the other distribution (vertical). This decomposition generalizes previous approach, e.g. using coordinate maps, by Ming Liao and others.