UNICAMP – IMECC Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

Expositor:	J. M. A. M. van Neerven (Delft University)
Título:	Stochastic integration in Banach spaces
Data:	Segunda-feira, 15 de agosto de 2011, 13h30min
Local:	Sala 321 do IMECC

Resumo. Classical stochastic analysis is based to a large extent on an L^2 -isometry, the Ito isometry, and for this reason it is relatively straightforward to extend much of the classical theory to the Hilbert space-valued case. In my talk, I hope to explain why this is insufficient from the point of view of stochastic partial differential equations. I will then outline recent work, done in collaboration with Veraar and Weis, which establishes a theory of stochastic integration in UMD Banach spaces (this includes the spaces L^p for 1), and showhow this theory allowed us to solve the maximal regularity problemfor second order parabolic stochastic partial differential equations.

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