

UNICAMP – IMECC
Departamento de Matemática

Seminário de Sistemas Dinâmicos e Estocásticos

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Título: Simulating stochastic derivatives and hedging

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Resumo. We illustrate the theory developed in a previous work with some numerical examples. The goal here is to show that our approximation scheme can be easily implementable in irregular situations. We illustrate the method with the problem of hedging non-smooth contingent claims in a complete market. For simplicity of exposition and comparison with exact known formulas, we will work on a simple diffusion setup although we recall that the stochastic derivative derived in our study holds for general square-integrable contingent claims. To illustrate our method, we will study three types of derivatives: an European call option, a digital option and a barrier option. This is a joint work with A. Ohashi.

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