

The Swing Option on the Stock Market

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We will discuss a new paper that introduces the Swing option on the stock market. In the paper we prove that the arbitrage free price in the Black-Scholes framework is given as the expected value of the payoff, when an optimal strategy is used. We also prove that the price satisfies a system of Hamilton-Jacobi-Bellman Variational Inequalities. A numerical scheme and some numerical examples will be presented.