

FP7 Marie Curie ITN "Controlled systems" project

Spring School "Stochastic Analysis in Finance" Roscoff, 6-15 March 2012

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Forward-backward stochastic differential equations with subdifferential operators and associated variational inequalities

Abstract: We study the existence and uniqueness of the solution for a forward-backward stochastic differential equation with subdifferential operators, more precisely both the forward and backward equations include subdifferential operators. Moreover, we give a probabilistic interpretation for the viscosity solution of a new kind of quasilinear variational inequality.

