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Jinniao Qiu* (071018032@fudan.edu.cn). *On Backward Doubly Stochastic Differential Evolutionary System.*

This talk is concerned with backward doubly stochastic differential evolutionary systems (BDSDESs for short). By using a variational approach based on the monotone operator theory, we prove the existence and uniqueness of the solutions for these BDSDESs. We also establish an Itô formula for the Banach space-valued BDSDESs. (Received January 12, 2012)