

Limit Theorem for Multivalued Stochastic Differential Equations

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Abstract: We prove the Stroock-Varadhan approximation of multivalued stochastic differential equations. converges

References

- [1] S. Xu (2008). Explicit solutions for multivalued stochastic differential equations, *Statistics and Probability Letters*, **to appear**.
- [2] X. Zhang (2007). Skorohod problem and multivalued stochastic evolution equations in Banach spaces, *Bull. Sci. Math.*, **131**, 175-217.
- [3] D.W. Stroock, S.R.S. Varadhan (1972). On the support of diffusion processes with applications to the strong maximum principle, *Proc. Sixth Berkeley Symp. Math. Statist. Prob.*, III,333-359.
- [4] A. Denjoy (1915). Sur les fonctions dérivées sommables, *Bull. Soc. France*, **43**, 161-248.