ON TIME REGULARITY OF ORNSTEIN-UHLENBECK EQUATION DRIVEN BY LÉVY NOISE IN HILBERT SPACES

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Abstract: In this talk, we will present some new progresses on the time regularity of generalized Ornstein-Uhlenbeck processes driven by Levy processes in Hilbert spaces. This talk is based on the following articles:

References

- [1] Brzezniak, Z., Goldys, B., Imkeller, P., Peszat, S., Priola, E., Zabczyk, J. Time irregularity of generalized Ornstein-Uhlenbeck processes, C. R. Acad. Sci. Paris, Ser. I 348(2010),
- [2] Liu, Y., Zhai, J.L. A note on time regularity of generalized Ornstein-Uhlenbeck processes with cylindrical stable noise, C. R. Acad. Sci. Paris, Ser. I 350(2012),
- [3] Peszat, S., Zabczyk, J. Time regularity of solutions to linear equations with Levy noise in infinite dimensions, Stochastic Processes and their Applications, 123(3), 2013,
- [4] Liu, Y., Zhai, J.L. On time regularity of SPDE in Hilbert spaces, 2013. Preprint