

On the boundedness of Bernoulli processes over thin sets

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Abstract

We show that the Bernoulli conjecture holds for sets with small one-dimensional projections, i.e. any bounded Bernoulli process indexed by such set may be represented as a sum of a uniformly bounded process and a process dominated by a bounded Gaussian process.

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Bibliography

1. X. Fernique. Régularité des trajectoires des fonctions aléatoires gaussiennes. *École d'Été de Probabilités de Saint-Flour, IV-1974*, Lecture Notes in Mathematics 480, 1-96, Springer, Berlin, 1975. [Math. Review 54 #1355](#)
2. M. Ledoux. *The concentration of measure phenomenon*. American Mathematical Society, Providence, RI, 2001. [Math. Review 2003k:28019](#)
3. M. Ledoux and M. Talagrand. *Probability in Banach spaces. Isoperimetry and processes*. Springer-Verlag, Berlin, 1991. [Math. Review 93c:60001](#)
4. M. Talagrand. Regularity of Gaussian processes. *Acta Math.* 159 (1987), 99-149. [Math. Review 89b:60106](#)
5. M. Talagrand. An isoperimetric theorem on the cube and the Kintchine-Kahane inequalities. *Proc. Amer. Math. Soc.* 104 (1988), 905-909. [Math. Review 90h:60016](#)
6. M. Talagrand. Regularity of infinitely divisible processes. *Ann. Probab.* 21 (1993), 362-432. [Math. Review 94h:60058](#)
7. M. Talagrand. *The generic chaining. Upper and lower bounds of stochastic processes*. Springer-Verlag, Berlin, 2005. MR2133757 [Math. Review 2006b:60006](#)

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