

arXiv.org > math > arXiv:1107.3230

Mathematics > Probability

A Central Limit Theorem for a sequence of Brownian motions in the unit sphere in Rn

Stavros Vakeroudis (LPMA, ENS, School of Mathematics), Marc Yor (LPMA, IUF)

(Submitted on 16 Jul 2011 (v1), last revised 29 Nov 2011 (this version, v3))

We use a Stochastic Differential Equation satisfied by Brownian motion taking values in the unit sphere S_{n-1} subsetmathbb R^{n} and we obtain a Central Limit Theorem for a sequence of such Brownian motions. We also generalize the results to the case of the n-dimensional Ornstein-Uhlenbeck processes.

Subjects: Probability (math.PR)

Cite as: arXiv:1107.3230 [math.PR] (or arXiv:1107.3230v3 [math.PR] for this version)

Submission history

From: Stavros Vakeroudis [view email] [v1] Sat, 16 Jul 2011 12:59:18 GMT (8kb) [v2] Wed, 16 Nov 2011 14:28:22 GMT (8kb) [v3] Tue, 29 Nov 2011 14:40:52 GMT (8kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

All papers 🖵 Go!

(Help | Advanced search)

Download:

PDF

Search or Article-id

- PostScript
- Other formats

Current browse context: math.PR

< prev | next >

new | recent | 1107

Change to browse by:

math

