

Original Articles

# Convergence of Symmetric Diffusions on Wiener Spaces

A. Posilicano, T.S. Zhang

Dipartimento di Scienze, Università dell'Insubria, I-22100 Como, Italy; Department of Mathematics, University of Manchester, Manchester M13 9PL, UK

收稿日期 修回日期 网络版发布日期 接受日期

摘要 In this paper, we study the distorted Ornstein-Uhlenbeck

processes associated with given densities on an abstract Wiener

space. We prove that the laws of distorted Ornstein-Uhlenbeck

processes converge in total variation norm if the densities

converge in Sobolev space  $D_{2,1}$ .

关键词 [Dirichlet forms, Ornstein-Uhlenbeck processes, capacity, Girsanov transform, total variation](#)

分类号

## Convergence of Symmetric Diffusions on Wiener Spaces

A. Posilicano, T.S. Zhang

### Abstract

### Key words

DOI:

通讯作者 [posilicano@uninsubria.it](mailto:posilicano@uninsubria.it)

### 扩展功能

#### 本文信息

▶ [Supporting info](#)

▶ [PDF\(0KB\)](#)

▶ [\[HTML全文\]\(0KB\)](#)

▶ [参考文献](#)

#### 服务与反馈

▶ [把本文推荐给朋友](#)

▶ [加入我的书架](#)

▶ [加入引用管理器](#)

▶ [复制索引](#)

▶ [Email Alert](#)

▶ [文章反馈](#)

▶ [浏览反馈信息](#)

#### 相关信息

▶ 本刊中 包含 “[Dirichlet forms, Ornstein-Uhlenbeck processes, capacity, Girsanov transform, total variation](#)” 的 [相关文章](#)

▶ 本文作者相关文章

· [A Posilicano](#)

· [TS Zhang](#)