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On a projection least squares estimator for jump diffusion processes

Hélène Halconruy[1] · **Nicolas Marie**[2]

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Abstract

This paper deals with a projection least squares estimator of the drift function of a jump diffusion process X computed from multiple independent copies of X observed on $[0, T]$. Risk bounds are established on this estimator and on an associated adaptive estimator. Finally, some numerical experiments are provided.

Keywords Projection least squares estimator · Model selection · Jump diffusion processes

✉ Nicolas Marie
nmarie@parisnanterre.fr

Hélène Halconruy
helene.halconruy@devinci.fr

1 Léonard de Vinci Pôle universitaire, Research Center, 12 avenue Léonard de Vinci, 92400 Courbevoie, France

2 Laboratoire Modal'X, Université Paris Nanterre, 200 avenue de la République, 92001 Nanterre, France