| Year: 2013 | Vol.: 82 | Fasc.: 3-4

Title: Gamma-mixed Ornstein-Uhlenbeck sheet Author(s): Ciprian A. Tudor and Maria Tudor

We construct a two-parameter variant of the Gamma-mixed Ornstein–Uhlenbeck process introduced in [8]. This process is constructed as a limit of aggregated Ornstein–Uhlenbeck sheet with common input and random coefficient. We will show that the Gamma-mixed Ornstein–Uhlenbeck sheet has various interesting properties. In particular, it approximates the Brownian sheet and its integral process approximates the Liouville fractional Brownian sheet.

## Address:

Ciprian A. Tudor Laboratoire Paul Painlevé Université de Lille 1 F-59655 Villeneuve d'Ascq France

## Address:

Maria Tudor Department of Mathematics Academy of Economical Studies Bucharest Romania