ID de Contribution: 10 Type: Non spécifié

Central convergence on Wiener chaoses always implies asymptotic smoothness and C-infinite convergence of densities

mardi 21 mars 2023 09:45 (55 minutes)

Let (F n) be any sequence of Wiener chaoses of any fixed order converging in distribution towards a standard Gaussian. In this talk, without any additional assumptions, we shall explain how to derive the asymptotic smoothness of the densities of F n , as well as the convergence of all its derivatives in every L q (R) for all q \in [1, +\infty] towards the corresponding derivatives of the Gaussian density. In particular, these findings greatly improve the currently known types of convergence which are total

and entropy that were obtained through Malliavin/Stein method.

Joint work with Ronan Herry and Dominique Malicet

variation

Orateur: POLY, Guillaume (IRMAR, Université de Rennes 1)