APPLICATIONS OF THE MALLIAVIN CALCULUS OF BISMUT TYPE WITHOUT PROBABILITY.

Rémi Léandre.

The talk is divided in 4 parts:

-)In the first part we translate in semi-group theory Bismut way of the Malliavin Calculus.

-)In the second part, we translate in semi-group theory our proof of Varadhan estimates, lower bound, got a lot time ago by us by using the Malliavin Calculus.

-)In the third part, we translate in semi-group theory Wong-Zakai approximation of a diffusion and the proof of the positivity result got by using Bismut's procedure a long time ago by Ben Arous and us.

-)In the fourth part, we translate in semi-group theory the division method and the results got a long time ago by us by using the Malliavin Calculus.