SEMINARIO DI MATEMATICA

Venerdì 22 giugno 2018
ore 11:00

Scuola Normale Superiore
Pisa
Aula Mancini

Enrico Priola
(Università di Torino)

terrà un seminario dal titolo:

"Poisson stochastic process and basic parabolic estimates"

Abstract:
We show how knowing Schauder or Sobolev-space estimates for the one-dimensional heat equation allows one to derive their multidimensional analogs for equations with coefficients depending only on time variable with the same constants as in the case of the one-dimensional heat equation. The method is quite general and is based on using the Poisson stochastic process. It also applies to other types of estimates and to equations involving non-local operators. It looks like no other methods are available at this time and it is a challenging problem to find an analytic approach to prove such results. In the talk I will concentrate on basic Sobolev estimates for the heat equation trying to explain the method.

This is a joint work with N. V. Krylov.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze

19/06/2018