SEMINARIO DI ANALISI GEOMETRICA

Giovedì 8 novembre 2018
ore 14:00

Scuola Normale Superiore
Pisa
Aula Bianchi Scienze

Giulio Tralli

(Università di Padova)

terrà un seminario dal titolo:

"Hörmander operators in nondivergence form: a Landis-type approach"

Abstract:
In this talk we will discuss the validity of Harnack inequalities for linear degenerate-elliptic equations of Hörmander type with non-smooth coefficients. We are interested in operators in nondivergence form, for which the analogous of the Krylov-Safonov Harnack inequality for equations with bounded measurable coefficients is still unknown. We will show a perturbative approach to prove invariant Harnack inequalities for operators with coefficients satisfying either a Cordes-Landis assumption or a continuity hypothesis. We will consider two specific classes of equations: the first class is formed by degenerate-elliptic operators which are horizontally elliptic with respect to Heisenberg-type vector fields; the second one constitutes a class of evolution operators of Kolmogorov-Fokker-Planck type. This talk is mainly based on joint works with F. Abedin and C.E. Gutiérrez.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze