



SCUOLA
NORMALE
SUPERIORE

SEMINARIO DI MATEMATICA

Giovedì 17 ottobre 2019
ore 14:00

Scuola Normale Superiore
Pisa
Aula Bianchi Scienze

Sebastiano Don
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Terrà un seminario dal titolo:

“Fine properties of BV functions in Carnot-Carathéodory spaces”

Abstract:

Carnot-Carathéodory spaces are metric spaces arising from a system of vector fields in \mathbb{R}^n satisfying a suitable non-involutivity assumption and they appear naturally in the study of non-holonomic control systems. We study structural properties of the measure derivative of a function of bounded variation in a CC space. We prove, in particular, that a BV function is approximately differentiable almost everywhere and we analyze the structure of its jump set. We finally show that, in a class of CC spaces satisfying some suitable geometric assumptions, the formula for the measure derivative of a BV function is analogous to the one available in the Euclidean case.

This is a joint work with Davide Vittone.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze