



SCUOLA
NORMALE
SUPERIORE

SEMINARIO DI MATEMATICA

Giovedì 14 marzo 2019
ore 15:00

Scuola Normale Superiore
Pisa
Aula Dini

Vladimir Tkatchev
(Linköping University)

Terrà un seminario dal titolo:

“Sharp pointwise gradient estimates for Riesz potentials”

Abstract:

I will explain why certain Riesz potentials and their sharp estimates are relevant in several different contexts including SL^p -problem of moments (A.A. Markov, M. Krein, N. Akhiezer, M. Putinar), exponential transform of quadrature domains and domain identification (M. Putinar, B. Gustafsson, G. Golub, P. Milanfar), an exponential transform and regularity of free boundaries in two dimensions (M. Putinar, B. Gustafsson), gradient potential estimates (Adams, Hedberg, Mingione) and also very recent appears in monotonicity formulae (J. Zhu, 2018). I will also give an overview of my recent results in this direction. The emphasis will be given on the applications to the SL^p -moment problem and exponential transforms.

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze