



UNIVERSITÀ DEGLI STUDI
DI TRENTO

Dipartimento di Matematica



Dottorato in Matematica 29° ciclo **SEMINARIO DI DOTTORATO**

Mercoledì 7 ottobre 2015 ore 16.45
(Aula Seminari di Matematica)

Sebastiano Nicolussi Golo

***GEOMETRY AND ANALYSIS IN THE HEISENBERG GROUP:
RESULTS AND FURTHER PROBLEMS.***

Abstract

I will give a rough account of the research I carried out during my doctoral studies. I dealt with regularity of sub-Riemannian, sub-Finsler and, more generally, homogeneous distances on homogeneous Lie groups. I will present my results in the specific setting of the Heisenberg group. Furthermore, I will give an introduction to the Bernstein problem in the Heisenberg group, which is the problem I am tackling right now under the supervision of prof. Serra Cassano.

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