



Speaker: Enrico Le Donne
ETH

Monday, October 25, 2010
4:00 PM
117 Hayes-Healy Hall

Title: Embeddings and non-embeddings of the subRiemannian Heisenberg group: old and new results

Abstract:

This talk addresses the embedding problem for a particular example: the Heisenberg group equipped with the Carnot-Carathéodory distance. Such a metric space will be introduced and some of its properties will be mentioned. There will be a summary of previous results: existence or non-existence of embeddings for some classes of maps and some targets. Then some new results will be presented, e.g., the subRiemannian Heisenberg group can be embedded into \mathbb{R}^4 preserving the length of all the curves.