

Meeting: 1000, Albuquerque, New Mexico, SS 13A, Special Session on Analysis and Geometry in Carnot-Caratheodory Spaces

1000-26-92 **Duy-Minh Nhieu*** (dn9@georgetown.edu), Department of Mathematics, Georgetown University, Washington, DC 20057-1233. *Notions of convexity in Carnot groups.*

In this talk, I will present several notions of convexity that generalize the classical notion to Carnot groups. I will also talk about some basic properties of such convex functions. Unlike the classical setting, these notions are not the same. Therefore, it is interesting to investigate properties of such functions and notions. The presentation is from a recent paper join with N. Garofalo and D. Danielli. (Received August 18, 2004)