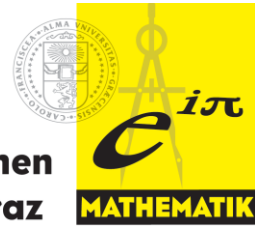**Institut für Mathematik
und Wissenschaftliches Rechnen
Karl-Franzens-Universität Graz**

EINLADUNG

zum Vortrag von

Dr. Alessia Kogoj

(Department of Information Engineering, Electrical Engineering and
Applied Mathematics - DIEM, University of Salerno)

Titel: Liouville Theorems for Hypoelliptic Partial Differential Operators on Lie Groups

Zeit: Dienstag, 25.10.2016, 14:00 Uhr

Ort: SR 11.34
Institut für Mathematik und Wissenschaftliches Rechnen
Heinrichstraße 36/3. OG, 8010 Graz

Abstract:
We present several Liouville-type theorems for caloric and subcaloric functions on Lie groups
in R^{N}.
Our results apply in particular to the heat operator on Carnot groups, to linearized
Kolmogorov operators and to operators of Fokker-Planck-type like the Mumford operator.
An application to the uniqueness for the Cauchy problem is also shown.
The results were obtained in collaboration with A. Bonfiglioli, E. Lanconelli, Y.Pinchover and S.
Polidoro.

Prof. Klemens Fellner