

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

1000-22-131 **Bruno Franchi*** (franchib@dm.unibo.it), Dipartimento di Matematica, Piazza di Porta S. Donato, 5, 40126 Bologna, Bologna, Italy, and **Raul Serapioni** and **Francesco Serra Cassano**.
Regular submanifolds of the Heisenberg group.

In this talk we provide a sketch of some recent joint results with R. Serapioni and F. Serra Cassano, concerning an intrinsic definition of submanifolds of the Heisenberg group, as well as a characterization of the intrinsic Hausdorff measure concentrated on these submanifolds. One of the most relevant features is that the notion of submanifold deeply changes passing from "low dimension" to "low codimension". (Received August 22, 2004)