

# COMPARISON PRINCIPLES FOR SUBELLIPTIC EQUATIONS OF MONGE-AMPÈRE TYPE

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ABSTRACT. I present some comparison principles for viscosity sub- and supersolutions of Monge-Ampère-type equations associated to a family of vector fields.

In particular, they yield the uniqueness of a viscosity solution to the Dirichlet problem.

An example satisfying the needed structural assumptions is the equation of prescribed horizontal Gauss curvature in a Carnot group.

This is joint work with Paola Mannucci (Univ. of Padova).