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*Rigidity of quasiconformal and Sobolev mappings between Carnot groups*

**Abstract:** I will discuss some rigidity theorems for quasiconformal and Sobolev mappings between Carnot groups, in particular, for mappings between products. A key role is played by the pullback of differential forms using the Pansu derivative, and its interaction with distributional exterior derivatives. This is joint work with Stefan Muller and Xiangdong Xie.