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On some inequalities in stratified Lie groups

The first proof in the Euclidean setting of so called improved Sobolev inequalities is due to P. Gerard, F. Oru and Y. Meyer. On the other hand, standard Sobolev inequalities have been studied by A. Cianchi in the context of Orlicz-Sobolev spaces. In this talk we present some improved Sobolev inequalities in the framework of stratified Lie groups.