



## Karlstad Applied Analysis Seminar (2023)

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### **Functional Inequalities in Stratified Lie groups with Sobolev, Besov, Lorentz and Morrey spaces**

#### **Abstract**

The first proof in the Euclidean setting of 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.