

An embedding theorem of Sobolev type spaces on stratified Lie groups

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Abstract: In this talk, we present a version of horizontal weighted Hardy-Rellich type inequality on stratified Lie groups and study some of their consequences. Our results reflect on many results previously known in special cases. Moreover, new Sobolev type spaces are defined on stratified Lie groups and proved an embedding theorem for these functional spaces.

Keywords: Stratified Lie groups, Hardy-Rellich type inequality, Sobolev space

2010 Mathematics Subject Classification: 94B05, 94B15