

Subelliptic problems with critical Sobolev exponent and Hardy potential on stratified groups

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We present some recent results about subelliptic equations with critical Sobolev exponent and Hardy potential on stratified Lie groups. Precisely, we provide existence, regularity and qualitative properties of solutions on the entire space and, by exploiting the obtained results on the limit problem, we get existence results for the related Brezis-Nirenberg type problem on bounded domains.