A simple and consistent definition of homogeneous Besov spaces on stratified Lie groups

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ABSTRACT: Stratified Lie groups are noncommutative Lie groups whose harmonic analysis still shares strong similarities with the Euclidean spaces. The simplest example of a noncommutative stratified Lie group is the Heisenberg group. In this talk I will discuss the construction of homogeneous Besov spaces via Littlewood-Paley decompositions on stratified groups.The exposition will emphasize the similarities with Euclidean cases.