

Asymptotic decay results for critical subelliptic equations

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In this talk we shall present some recent results on the asymptotic behavior of finite energy solutions to critical growth equations in the subelliptic setting. We deal with the semilinear case with Hardy perturbation and the quasilinear case. The involved operators are sub-Laplacians on Carnot groups and Grushin-type operators. As a remarkable consequence of our analysis, we obtain the exact rate of decay of the extremal functions for some relevant functional inequalities on Stratified Lie groups, whose analytic expression is not known.