

Quasilinear critical problems with Hardy potential on Carnot groups

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In this talk, we discuss qualitative properties of entire solutions to critical problems with Hardy term involving the p -sub-Laplacian operator on Carnot groups. In particular, we obtain the exact behavior at the singularity and at infinity of finite energy solutions. We then discuss the existence of solutions for the associated Brezis-Nirenberg type problem. These results extend to the quasilinear context recent results obtained by the author for the corresponding semilinear case.