Some new result on sub-Riemannian geodesics in Carnot groups

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Abstract. We present some result on sub-Riemannian geodesics in Carnot groups recently obtained in collaboration with E. Le Donne, G.P. Leonardi and R. Monti. We will show that any abnormal geodesic in a Carnot group is contained in an algebraic variety belonging to a certain class. Applications to the problem of geodesics' regularity will be discussed.