Spectral analysis for perturbed operators on Carnot groups

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© 2017, Springer International Publishing. Let G be a Carnot group of homogeneous dimension M and ? its horizontal sublaplacian. For ?? (0, M) we show that operators of the form H?: = (-?) ?+ V have no singular spectrum, under generous assumptions on the multiplication operator V. The proof is based on commutator methods and Hardy inequalities.