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Lijing Sun* (sun2@uwm.edu), Department of Mathematics, University of Wisconsin-Milwaukee, Milwaukee, WI 53211. *On fundamental solution of generalized Subelliptic Schrödinger operators.* Preliminary report.

We consider the generalized Subelliptic Schrödinger operator $-\sum_{k=1}^m X_k^2(x) + \mu$, where μ is nonnegative Radon measure in \mathbb{G} . Assume that μ satisfies certain scale-invariant Kato conditions and doubling conditions we established the bounds for the fundamental solution $-\sum_{k=1}^m X_k^2(x) + \mu$ in \mathbb{G} . (Received February 01, 2008)