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A. A. Himonas, G. Petronilho* (gerson@dm.ufscar.br) and **L. A.C. dos Santos.** *Gevrey hypoellipticity for a class of subLaplacians on a torus.*

We consider a family of sums of squares operators on a torus and we show that its global hypoellipticity in the Gevrey frame is equivalent either to an algebraic condition involving simultaneous approximability or the existence of a point of finite type. (Received January 27, 2008)