1043-22-123 Murad Ozaydin (mozaydin@ou.edu), Department of Mathematics, University of Oklahoma, Norman, OK 73019, and Tomasz Przebinda* (tprzebinda@gmail.com), Department of Mathematics, University of Oklahoma, Norman, OK 73019. A non-commutative sharp and symmetric uncertainty inequality.

We propose a generalization of the Matolci-Szücs uncertainty principle to a non-commutative locally compact group, where the measure of the support of the Fourier transform of a function is replaced by the integral of the rank of the corresponding operators. (Received August 23, 2008)