1053-43-343   **Andrea J Fraser*** (`afraser@mathstat.dal.ca`), Department of Mathematics and Statistics, Dalhousie University, Halifax, NovaScotia B3H 3J5, Canada. *A class of singular integral operators on the Heisenberg group.*

This talk concerns a class of singular integral operators on the Heisenberg group H_n, characterized by certain regularity and cancellation conditions on their convolution kernels. These conditions are analogous to those describing the kernels of the product-type Calderon—Zygmund operators on R^n, such as the product Hilbert transform. I show here that such operators are bounded on $L^p(H_n)$. The proof follows a 'reverse transference' method of Muller, Ricci and Stein. (Received September 08, 2009)