1037-60-260   **Maria Gordina*** (`gordina@math.uconn.edu`) and **Bruce Driver**. *Heat kernel analysis on infinite-dimensional Heisenberg groups.*

This is a joint work with B.Driver. The group in question is modeled on an abstract Wiener space. Then a group Brownian motion is defined, and its properties are studied in connection with the geometry of this group. The main results include quasi-invariance of the heat kernel measure, log Sobolev inequality (following a bound on the Ricci curvature), and the Taylor isomorphism to the corresponding Fock space. (Received February 04, 2008)