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Jonathan Epstein* (jepstein@ou.edu). *Polynomial Entropy and the Heisenberg Group*. Preliminary report.

Polynomial entropy is a numerical invariant that was introduced to study completely integrable Hamiltonian systems. Subsequently it was shown that polynomial entropy distinguishes the geodesic flows of flat metrics among the geodesic flows of all Riemannian metrics on a torus. In this vein, we present some results on the polynomial entropy of left-invariant Riemannian metrics on the Heisenberg group. (Received September 25, 2018)