1015-35-177   **Nicholas Hanges*** (`nicholas.hanges@lehman.cuny.edu`), Department of Mathematics, Lehman College, Bedford Park Boulevard West, Bronx, NY 10468. *Analytic hypoellipticity and symplectic geometry.* Preliminary report.

We present recent results on analytic hypoellipticity for degenerate elliptic operators of order two. We relate these results to the Treves conjecture. This work is a collaboration with Paulo D. Cordaro. (Received February 04, 2006)