

1043-49-188

**Hung M Phan\*** (az7323@wayne.edu), 5200 Anthony Wayne Drive, #210, Detroit, MI 48202.

*Necessary optimality conditions for bilevel programming problems.* Preliminary report.

In this paper, we study the optimistic version of bilevel programming using generalized differentiations. Using calculus rules for subdifferentials of generalized distance functions as well as some regularity conditions, we obtain necessary optimality conditions in bilevel programming problems without imposing partial-calmness condition. Our approach allows us to improve known recent results in this area.

(This talk is based on the joint work with Prof. Boris Mordukhovich<sup>1</sup> and Nguyen Mau Nam<sup>2</sup>).

<sup>1</sup>Department of Mathematics, Wayne State University, Detroit, Michigan, 48202.

<sup>2</sup>Department of Mathematics, University of Texas-Pan American, Edinburg, Texas 78539. (Received August 26, 2008)