1025-49-177   **Ilya Shvartsman*** (`shvartia@muohio.edu`), Department of Mathematics and Statistics, Oxford, OH 45056, and **Maria de Rosario Pinho** and **Richard B Vinter**. *On regularity properties of optimal controls in dynamic optimization.*

An optimal control in a dynamic optimization problem can fail to be even a piecewise-continuous function in simple situations. The talk is devoted to an overview of classical and recent results related to conditions ensuring regularity properties such as Lipschitz continuity and differentiability of optimal controls. (Received January 22, 2007)