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Mara Aruguete (aruguetem@lincolnu.edu), 701 S Providence Road, Apt 1I, Columbia, MO 65203, and Chelsey Stephenson\* (rocking\_girlz@hotmail.com), 179 County road 420, Linn, MO 65051. Convexity Conditions of Euler-Lagrange Equations in Optimization Problems.

In this presentation, we will mainly talk about the convexity conditions of Euler-Lagrange equations in optimization problems. Value functions with optimal control is also examined through the feedback rules, Hamilton-Jacob theory. (Received September 11, 2012)