1077-11-1453    **Bogdan Petrenko\*** (`bpetrenk@brockport.edu`), Department of Mathematics, SUNY Brockport, 350 New Campus Drive, Brockport, NY 14420, and **Marcin Mazur**, Department of Mathematical Sciences, Binghamton University, Binghamton, NY 13902. *Generalizations of V.I. Arnold's version of Euler's Theorem for matrices.*

In this talk I will explain some extensions of V.I. Arnold's version of Euler's Theorem for matrices that M. Mazur and I have recently obtained. This talk will be based based on the following our joint papers in the Japanese Journal of Mathematics: Vol. 5, Issue 2 (2010) pp. 183-189, and Vol. 6, Issue 1 (2011) pp. 63-64. (Received September 19, 2011)