

**Meeting:** 1004, Bowling Green, Kentucky, SS 13A, Special Session on Nonlinear Analysis and Applied Mathematics

1004-34-61            **Elena Constantin\*** ([constane@math.ohiou.edu](mailto:constane@math.ohiou.edu)), Department of Mathematics, Ohio University,  
Athens, OH 45701. *On a Characterization of Some Flow-invariant Sets*. Preliminary report.

The goal of this talk is to give some necessary and sufficient conditions for the flow-invariance of the kernel of a Fréchet differentiable operator defined on an open subset of a Banach space with respect to a high order autonomous differential equation, using the theory of tangent sets. (Received January 18, 2005)