1042-28-125 **Marie A. Snipes*** (`masnipes@umich.edu`), 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109-1043. *Geometric Integration Theory in Banach Spaces.*

Whitney's geometric integration theory in $\mathbb{R}^n$ allows one to integrate over geometric objects called flat chains. The natural "functions" one integrates over these chains are flat forms, which are L^∞ differential forms with weak derivatives in L^∞. In this talk we will discuss the generalization of this theory to arbitrary Banach spaces. (Received August 15, 2008)