Detelin Dosev (dosev@neo.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843, USA, ***Commutators on some classical Banach spaces.***

ABSTRACT. In this talk a classification of the commutators on ℓ_p and L_p, $1 \leq p \leq \infty$, will be given. We will show that the commutators on X for $X = \ell_p$ or $X = L_p$, $1 \leq p \leq \infty$, are the operators not of the form $\lambda I + K$ where $\lambda \neq 0$ and K is an operator in the largest ideal in $L(X)$. The main steps for proving these results will be outlined and applications to other Banach spaces will be presented as well.
The results are based on a joint work with W. B. Johnson and G. Schechtman.