1117-43-76 **Irina Holmes*** (iholmes6@math.gatech.edu), 686 Cherry St, Atlanta, GA 30332, **Michael T. Lacey** (lacey@math.gatech.edu), 686 Cherry St, Atlanta, GA 30332, and **Brett D. Wick** (wick@math.wustl.edu), One Brookings Drive, St. Louis, MO 63130. *Commutators in the two-weight setting.*

We discuss recent results on two-weight inequalities for commutators with Calderón-Zygmund operators. These results extend a foundational paper by Coifman, Rochberg and Weiss, where the $L^p(\mathbb{R}^n) \to L^p(\mathbb{R}^n)$ norm of a commutator $[b, T]$ with a Calderón-Zygmund operator T is characterized in terms of the BMO norm of b. Here we consider $[b, T]$ acting between two different weighted Lebesgue spaces $L^p(\mathbb{R}^n; \mu) \to L^p(\mathbb{R}^n; \lambda)$, where μ and λ are A_p weights. We characterize this two-weight norm of $[b, T]$ in terms of a certain weighted BMO space. A first such result was obtained by Bloom in 1985, for the Hilbert transform. (Received January 03, 2016)