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Theresa C. Anderson* (theresa_anderson@brown.edu) and **Wendolin Damian**. *Sharp mixed bounds of many flavors: new techniques and extensions.*

The recent proof of the A_2 theorem (sharp weighted bound for Calderón-Zygmund operators) has led to much investigation in sharp mixed bounds for operators and commutators, that is, a sharp weighted bound that is a product of at least two different A_p weight constants. The reason why these are sought after is that the product will be strictly smaller than the original one-constant bound. In this talk, we will highlight some of these recent results, proved using the new techniques of Lerner, in spaces of homogeneous type. We have sharp results for both operators and commutators in a variety of contexts. This is joint work with Wendolín Damián (Received January 09, 2014)