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Commutators, Calderon-Zygmund Operators, and BMO

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Lecture 1: An important theorem in harmonic analysis connects the commutator of multiplication by a function and Calderon-Zygmund operators and the functions of bounded mean oscillation. And as a dual statement, it connects the Hardy space with a certain “factorization” of Lebesgue spaces. During these lectures we will give proofs of these theorems using tools from dyadic harmonic analysis. Connections with analytic function theory will be provided and extensions to the case of weighted estimates and to the case of multi-parameter harmonic analysis will also be discussed.

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