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REVERSE HÖLDER INEQUALITIES. SOME RECENT RESULTS AND EXTENSIONS TO LCA GROUPS

We will present some recent results regarding reverse Hölder inequalities for the class of Muckenhoupt weights. Motivated by the problem of finding sharp quantitative norm estimates for maximal and other classical operators, we study precise reverse Hölder inequalities with a quantitative dependence on the or constants of the weights involved. We will isolate the crucial and fundamental ingredients of the proofs and show how to extend the results to different scenarios beyond the classical euclidean space. We will consider spaces of homogeneous type, the euclidean space equipped with nondoubling measures and locally compact abelian groups.