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G. Knese, J. E. McCarthy and **K. Moen*** (`kabe.moen@ua.edu`). *Unions of L^p spaces and A_1 majorants.*

We show that unions of Lebesgue spaces are intimately related to the Hardy-Littlewood maximal function and the theory of weighted Lebesgue spaces. A key idea is the notion of an A_1 majorant. We give several simple characterizations of when a function belongs to the union of Lebesgue spaces on both local and global settings. This presentation will be based on a joint work with Greg Knese and John McCarthy. (Received February 10, 2014)