Title: Multilinear Calderón–Zygmund operators on Morrey space with non-doubling measures

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Under the assumption that μ is a non-negative Radon measure on $\mathbb{R}^d$ which only satisfies some growth condition, the authors proved the multilinear Calderón–Zygmund operators are bounded from $\mathcal{M}_{q_1}^{p_1}(k,\mu) \times \cdots \times \mathcal{M}_{q_m}^{p_m}(k,\mu)$ into $\mathcal{M}_q^p(k,\mu)$ for some fixed $q_1, \ldots, q_m \in (1,\infty)$ and $1/q = 1/q_1 + \cdots + 1/q_m$. Furthermore, the authors established the same bounded estimates for the commutators generated by multilinear Calderón–Zygmund operators and RBMO(μ) functions. Some of the results are also new even when the measure μ is the d-dimensional Lebesgue measure.

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