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Boundedness of Some Maximal Commutators in Hardy-type Spaces with Non-doubling Measures

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摘要

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Abstract Let μ be a non-negative Radon measure on \mathbb{R}^d which satisfies only some growth conditions. Under this assumption, the boundedness in some Hardy-type spaces is established for a class of maximal Calder\on--Zygmund operators and maximal commutators which are variants of the usual maximal commutators generated by Calder\on--Zygmund operators and $\mathcal{BMO}(\mu)$ functions, where the Hardy-type spaces are some appropriate subspaces, associated with the considered $\mathcal{BMO}(\mu)$ functions, of the Hardy space $H^1(\mu)$ of Tolsa.

Key words [maximal commutator](#) [Calder\on--Zygmund operator](#) [\$\mathcal{BMO}\(\mu\)\$](#) [Hardy-type space](#) [non-doubling measure](#)

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