

BOUNDEDNESS FOR MULTILINEAR COMMUTATORS OF INTEGRAL OPERATORS IN HARDY AND HERZ-HARDY SPACES ON HOMOGENEOUS SPACES

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Abstract. In this paper, we shall study the Hardy-boundedness for the multilinear commutators related to the singular integral operators on the space of homogeneous type. By using the Hölder's inequalities and the $L^q(1 < q < \infty)$ boundedness for the singular integral operators on the space of homogeneous type, we obtain the (H_b^p, L^p) and $(HK_{q,\vec{b}}^{\alpha,p}, \dot{K}_q^{\alpha,p})$ type boundedness for the multilinear commutators on the space of homogeneous type.

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