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Chunping Xie* (xie@msoe.edu), Math Department, Milwaukee School of Engineering, 1025 N. Broadway, Milwaukee, WI 53202. *Hardy Type Commutators on Function Spaces*. Preliminary report.

The note deals with commutators of the Hardy operator, Hardy type operators on Morrey spaces on R^+ . We have proved that the commutators generated by Hardy operator and Hardy type operators with a BMO function b are bounded on the Morrey spaces. (Received August 04, 2015)