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Zhe Liu* (zhe.liu@ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Commutators of operators affiliated with von Neumann algebras and derivations of Murray-von Neumann algebras.*

We discuss results about commutators of operators affiliated with von Neumann algebras. In particular, we examine the case of the family of operators affiliated with finite von Neumann algebras, the Murray-von Neumann algebras. We examine derivations of such algebras and their relations to commutators in those algebras. (Received February 08, 2014)