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Richard Kadison* (kadison@math.upenn.edu). *Operator Algebras, Derivations, and Commutators – problems related to these and their applications in quantum physics.*

We discuss derivations and automorphisms of operator algebras and commutators of operators associated with these derivations in their relation to both quantum physics and the structure of von Neumann algebras. We do this in the light of problems that are open and those on which recent progress has been made. (Received July 04, 2017)