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Bradd Hart* (hartb@mcmaster.ca), McMaster University, Mathematics and Statistics, 1280 Main Street, Hamilton, Ontario L8S 4K1, Canada. *John von Neumann, model theorist.*

I will survey some of the recent work on the model theory of operator algebras but will pay particular attention to some of the early work of von Neumann that turns out to be very relevant. (Received September 18, 2012)