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Model theory and operator algebras

With the recent introduction of continuous logic, the connection between model theory and operator algebras which had been hinted at in early work of Robinson and later work of Henson could come to fruition. I will give an overview of the main themes in this growing field which include McDuff's problem and the elementary theory of II_1 factors, the interaction of classification of nuclear C^* -algebras and omitting types, and various model theoretic construction principles. I will focus on the current state of affairs and the main open problems.