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The model theory of von Neumann algebras revisited

Both the Groh-Raynaud and Ocneanu ultraproduct play a significant role in the theory of general von Neumann algebras. Most of the effort to date on the model theory of von Neumann algebra has been directed at the case of II_1 factors. Previous work of Ando and Haagerup and separately Dabrowski indicate that there is a well-behaved model theory in the general setting. I will give a different presentation of this work with an eye to applications. This is joint work with Thomas Sinclair.