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*Amalgamated free product rigidity for group von Neumann algebras.* Preliminary report.

I will explain recent work with Ionut Chifan in which we provide a large family of amalgamated free product groups  $\Gamma = \Gamma_1 *_\Sigma \Gamma_2$  whose amalgam structure can be completely recognized from their von Neumann algebras. Our result significantly strengthens some of the previous Bass-Serre rigidity results for von Neumann algebras. As a corollary, we obtain the first examples of amalgamated free product groups which are  $W^*$ -superrigid. (Received August 26, 2017)