

# Algebra/Topology Seminar

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## JONES–SCHMIDT STABILITY FOR THOMPSON-LIKE GROUPS FROM CLONING SYSTEMS

Thursday, September 12, 2024  
3:00 p.m. in BB-B012

ABSTRACT. A special class of inner amenable groups are those which are stable in the sense of Jones and Schmidt. For stable groups, there always exists an action that gives rise to a cross product von Neumann algebra which is a McDuff  $\text{II}_1$  factor, i.e.,  $M \cong M \otimes \mathcal{R}$ , where  $\mathcal{R}$  is the hyperfinite  $\text{II}_1$  factor. Following the work of Bashwinger and Zaremsky, we show that a certain class of groups arising from the Thompson-like group construction of Skipper, Witzel, and Zaremsky are stable groups, providing new examples of McDuff von Neumann algebras. Time permitting, I will discuss other von Neumann algebraic properties of the Thompson group  $V$ . This is joint work with Rolando de Santiago and Krishnendu Khan.