

GENERALIZED WREATH PRODUCTS AND RIGIDITY OF THEIR VON NEUMANN ALGEBRAS

Fudan Topology Seminar

Speaker: Bin Sun

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Time: Thur, Jun. 9th, 15:00-17:00

Zoom meeting ID: 956 0945 4208 Passcode: hyperbolic

Abstract: We construct the first positive examples to the Connes' Rigidity Conjecture, i.e., we construct groups G with Kazhdan's property (T) such that if H is a group with the same von Neumann algebra as G, then H is isomorphic to G. In this talk, I will focus on the group theoretic side of this result and talk about how we applied geometric group theory to solve problems from von Neumann algebra.