



YONSEI

Math-CSE Colloquium

The first-order theory of manifold homeomorphism groups

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Two groups are elementarily equivalent if they have the same sets of valid first order group theoretic sentences. A fundamental question formulated by Tarski in the 1940s is when two non-isomorphic groups can become elementarily equivalent. We will overview some known results regarding this question, and present our own in the case of manifold homeomorphism groups. This includes joint work with Thomas Koberda (UVa) and Javier de la Nuez-Gonzalez (KIAS).

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