SPEAKER: Dr. Javier Trigos-Arrieta
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TITLE: Non-measurable subgroups of countable products of groups of bounded order

ABSTRACT

Measure is a generalization of concepts such as length, area and volume. A group is a non-empty set with an operation that is associative, an identity, and in which every element has an inverse. A countable product of groups is a group itself consisting of infinite sequences of elements in the groups. We show that the countable product of groups whose size is smaller than a certain number always contains a subgroup that cannot be measured.

This talk is intended for math majors who have taken or are currently enrolled in algebraic structures and real analysis.