

Thompson's groups, several generalisations and Divergence property

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Thompson's groups F , T and V were first constructed by Richard Thompson from a logical context where T and V were the first two examples of finitely generated infinite simple groups. These groups were later found to have connections with many other branches of not only mathematics but also theoretical physics. These groups have many interesting generalisations since they are discovered and seem to be counter-intuitive in the realm of geometric group theory.

In this talk, I would like to survey briefly on how these groups are discovered, why are they becoming interesting examples in geometric group theory, and talk a little about my previous result related to the metric properties of the groups.