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On generalisations of Thompson's group V

In the 1960s R. Thompson defined three groups, F, T and V, all of which have shown to have surprising properties. For example, V was the first example finitely presented

infinite simple group. In the early 2000s Nekrashevych and Matui realised these as topological full groups of some Cuntz-Algebras.

In this talk I will give an overview over some generalisations of V, especially those that are automorphism groups of Cantor-algebras. As it turns out, these can also be realised as topological full groups of certain groupoids coming from higher rank graphs. This is ongoing work with C. Martinez-Perez and A. Vdovina.