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Automorphism groups of Toeplitz subshifts

In this talk I will show recent results in the description of automorphism groups of Toeplitz subshifts. Among other results, we show that such groups are abelian and finitely generated subgroups have a cyclic torsion. Indeed, every finitely generated abelian group with cyclic torsion can be realized as the automorphism group of a Toeplitz subshift. When we restrict to "low complexity" situations, such automorphism groups are spanned by the roots of the shift map. Also, for any $\epsilon > 0$ we construct Toeplitz subshifts with word complexity smaller than $Cn^{1+\epsilon}$ whose automorphism groups are not finitely generated.

This is a joint work with Fabien Durand, Alejandro Maass and Samuel Petite.