

**FIXED POINTS, ABELIANIZATIONS AND AMALGAMATIONS:
LINEAR GROUPS AND UNIT GROUPS OF GROUP RINGS**

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The unit group $U(\mathbb{Z}G)$ of the integral group ring of a finite group G is a finitely presented group. So geometric group theory can be used to reveal global information as well as information on its torsion structure. To employ this, we will first study the actions of $U(\mathbb{Z}G)$ on trees which naturally leads to corresponding questions for linear groups over certain (not necessarily commutative) orders.

This is joint work with Geoffrey Janssens, Eric Jespers, Ann Kiefer and Doryan Temmerman (all Vrije Universiteit Brussel, Belgium).

REFERENCES

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