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On automorphisms of graphs of groups with cyclic edge groups.

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Abstract:

We describe the outer automorphism group of a one-ended fundamental group of a graph of groups, when centralisers of elements in the vertex groups, and the edge groups are infinite cyclic. We show that in this case the outer automorphism group is virtually built from the outer automorphisms of the vertex groups (fixing some elements), the outer automorphisms of some associated generalised Baumslag-Solitar groups, and generalised twists - partial conjugations by elements in the centraliser of some elliptic elements in the group.

This is joint work with D. Ascari and M. Casals-Ruiz.