

A PRO-P VERSION OF SELA'S ACCESSIBILITY.

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Abstract:

Accessibility of splittings over finite groups (i.e., as a graph of groups with finite edge groups) was studied by Dunwoody who proved that finitely presented groups are accessible but found an example of an inaccessible finitely generated group. This initiated naturally a search for a kind of accessibility that holds for finitely generated groups. The breakthrough in this direction is due to Sela who proved k -acylindrical accessibility for finitely generated groups: accessibility provided the stabilizer of any segment of length k of the group acting on its standard tree is trivial for some k .

In general finitely generated pro- p groups are not accessible, as shown by Wilkes, and it is an open question whether finitely presented are. In this talk we will present the pro- p version of Sela's result and, time permitting, we will provide an application for it.

Joint work with Pavel Zalesskii.