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Membership Problem in groups acting freely on Zⁿ-trees

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(Submitted on 5 Jul 2011 (v1), last revised 14 Jul 2011 (this version, v2))

Groups acting freely on Zⁿ-trees (Zⁿ-free groups) play a key role in the study of non-archimedean group actions. Following Stallings' ideas, we develop graph-theoretic techniques to investigate subgroup structure of Zⁿ-free groups. As an immediate application of the presented method, we give an effective solution to the Uniform Membership Problem and the Power Problem in Zⁿ-free groups.

Comments:	41 pages
Subjects:	Group Theory (math.GR)
MSC classes:	20F10, 20F65, 20E08
Cite as:	arXiv:1107.0943 [math.GR]
	(or arXiv:1107.0943v2 [math.GR] for this version)

Submission history

From: Andrey Nikolaev [view email] [v1] Tue, 5 Jul 2011 18:53:47 GMT (31kb) [v2] Thu, 14 Jul 2011 18:47:26 GMT (31kb)

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