

Mathematics > Group Theory

Infinite words and universal free actions

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This is the second paper in a series of three, where we take on the unified theory of non-Archimedean group actions, length functions and infinite words. Here, for an arbitrary group \$G\$ of infinite words over an ordered abelian group \$\Lambda\$ we construct a \$\Lambda\$-tree \$\Gamma_G\$ equipped with a free action of \$G\$. Moreover, we show that \$\Gamma_G\$ is a universal tree for \$G\$ in the sense that it isometrically embeds in every \$\Lambda\$-tree equipped with a free \$G\$-action compatible with the original length function on \$G\$.

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