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
ON THE ADDITIVE GROUP STRUCTURE OF NONSTANDARD MODELS OF \mathbb{Z}

of

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Mathematics

Abstract: Let $\hat{\mathbb{Z}}$ denote the inverse limit of finite cyclic groups and $F_g\mathbb{Z}$ the group $\langle F \times \mathbb{Z}, + \rangle$ where F is a vector space over \mathbb{Q} and $+$ is defined by $(a, x) + (b, y) = (a+b, x+y+g(a,b))$ for some $g: F \times F \rightarrow \mathbb{Z}$. In this paper we show that any nonstandard model Z^{star} of \mathbb{Z} is isomorphic to $F_\beta\mathbb{Z}$ for some $\beta: F \rightarrow \hat{\mathbb{Z}}$ where $F = Z^{\text{star}}/\mathbb{Z}$.

 [Keywords](#)
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