

Topologically torsion elements of the circle group

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Abstract

Let (m_n) be a faithfully enumerated sequence of integers with $m_n | m_{n+1}$ for every $n \in \mathbb{N}$. We describe the topologically (m_n) -torsion elements of the circle group $\mathbb{T} = \mathbb{R}/\mathbb{Z}$ (written additively), namely those elements $x \in \mathbb{T}$ such that $m_n x$ converges to 0.