VALUATED $p^n$-SOCLES AND $C_\lambda n$-SUMMABLE
ABELIAN $p$-GROUPS

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Abstract

Let $\lambda \leq \omega_1$ be an arbitrary ordinal and let $n \geq 1$ be an arbitrary natural. We establish a number of results on $n$-summable and $C_\lambda n$-summable abelian $p$-groups generalizing classical theorems due to Hill and Hill-Megibben proved for direct sums of countable abelian $p$-groups.

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