LIMITS OF LALESCU KIND SEQUENCES WITH
$p$–HYPERFACTORIAL AND SUPERFACTORIAL

ARKADY ALT

Abstract. The subject of this article are limits of sequences that can be represented in the form
\( n^{\mu} \left( (n+1)^{1-\mu} - n^{1-\mu} \right) \). In particular, we will derive limits of such sequences with \( p \)-hyperfactorial for \( p \in \mathbb{R}^+ \) and with superfactorial.

Mathematics subject classification (2010): 40A05, 34C41.

Keywords and phrases: Lalescu sequence, hyperfactorial, superfactorial, asymptotic equivalence.

REFERENCES