

## ON A NEW CLASS OF RAPIDLY VARYING FUNCTIONS

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**Abstract.** We introduce a new class  $K$  of the perfect Karamata's kernels which includes already known classes of rapidly varying functions in Karamata's sense. Characterisation theorems for this class are given. It is also shown that the classical weighted means of arbitrary order preserves regular variation of the target function if and only if weights are from the class  $K$ .

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**Key words.** Rapid variation, regular variation, Karamata.

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