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Approximation of Bounded p-variation Periodic Functions by Generalized Abel–Poisson and Logarithmic Means

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An asymptotic estimate of approximation by generalized Abel–Poisson means in p-variation metric on the class of functions with given majorant of p-variational best approximation is proved. Several other quantity results on approximation by these means are obtained.

Key words: functions of bounded p-variation, generalized Abel–Poisson means, best approximation, p-variational modulus of continuity.

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