

## Direct results in $L_p$ -approximation of certain generalized integral Baskakov type operators <sup>1</sup>

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### Abstract

In the present paper we study a new sequence of linear positive operators which generalize Baskakov type operators introduced by Agarwal and Thamer [3]. We establish some direct results, including Voronovskaja type asymptotic formula and error estimation in terms of higher order integral modulus of continuity. The linear approximating method, namely Steklov mean is used to prove the main result.

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**Key words and phrases:** Baskakov operators,  $L_p$ -approximation, Asymptotic formula, Error estimation.

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