

More on the Bernoulli*-Taylor Formula for Extended Umbral Calculus

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Abstract. One presents here the $*_{\psi}$ -Bernoulli-Taylor* formula of a new sort with the rest term of the Cauchy type recently derived by the author in the case of the so called ψ -difference calculus which constitutes the representative for the purpose case of extended umbral calculus. The central importance of such a type formulas is beyond any doubt - and recent publications do confirm this historically established experience.

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*see below: a historical remark based on Academician N. Y. Sonin article published in Petersburg in 19-th century. We owe this information and the article to Professor O. V. Viscov from Moscow.

see: C. Graves, *On the principles which regulate the interchange of symbols in certain symbolic equations*, Proc. Royal Irish Academy **6 (1853–1857), 144-152