

## **$n$ -EXPONENTIAL CONVEXITY OF DIVIDED DIFFERENCES AND RELATED STOLARSKY TYPE MEANS**

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*Abstract.* In this paper we consider functionals with divided differences. Two of them use majorization type results, where one is related with Schur convexity. The others are related to Jensen inequality and Hermite-Hadamard inequalities. We use them in studying Stolarsky type means. A method of producing  $n$ -exponentially convex functions is applied using divided differences.

*Mathematics subject classification (2010):* 26D15, 26D20, 26D99.

*Keywords and phrases:* Divided differences,  $n$ -convex function, majorization, Schur convex function, means,  $n$ -exponentially convexity.

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