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ON APPROXIMATION OF FUNCTIONS BY MELLIN SINGULAR INTEGRALS

Abstract

The results on approximations of functions by singular integrals play an important part and have numerous applications in various fields of mathematics. A lot of papers were devoted (see e.g. [1]-[9] and the references) to the investigation of the problems on approximation of functions by singular integrals (including by Mellin singular integrals).

In the present paper we investigate approximate properties of Mellin's singular integral in the terms of mean oscillation of a locally summable function.