

# **Otelbayev function and its applications in problems of functional analysis**

Leili Kussainova

*L. N. Gumilyov Eurasian National University, Astana, Kazakhstan*

We discuss the use of Otelbayev function in embedding theory, in interpolation theory, in the theory of multipliers and in approximation theory for weighted spaces with both integer and non-integer smoothness and non-regular weights.